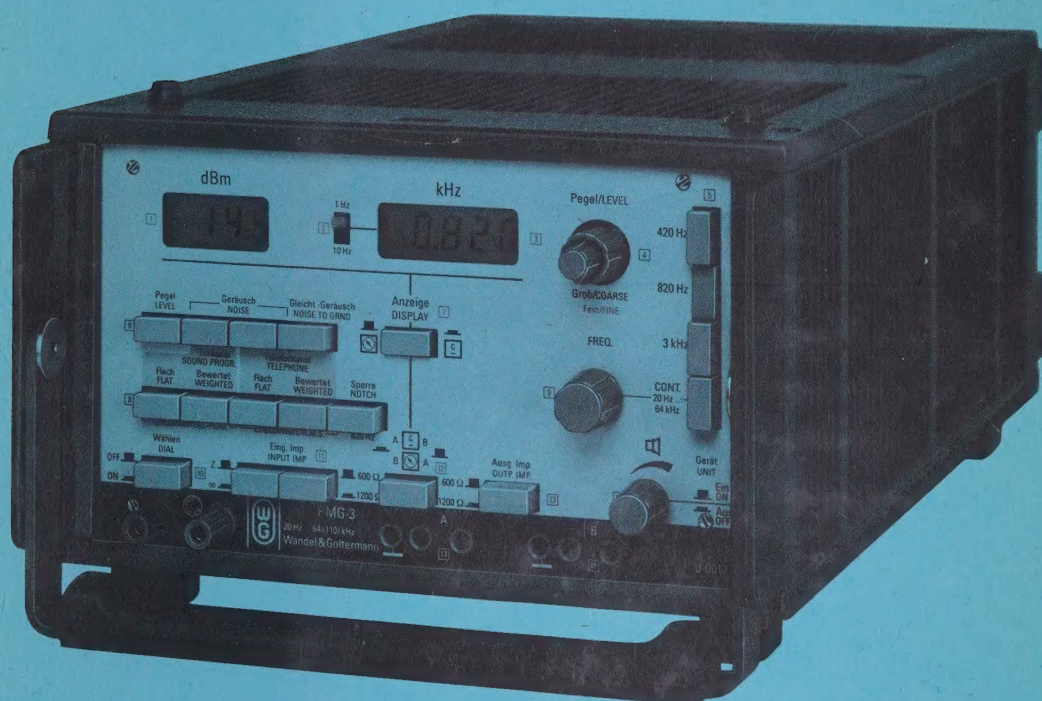
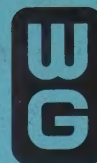
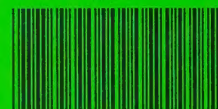


Anhang
Appendix
Annexe



MP MASTER



MA29258

Pegelmeßgerät
Transmission Measuring Set
Appareil de mesure de niveau

PMG-3

BN 9202/00.87

Anschriften

Stammhaus

Mühleweg 5
D-7412 Eningen u. A. bei Reutlingen

Postanschrift
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Telex 07 29 833 wug d
FAX (0 71 21) 8 84 04

Verkauf in der Bundesrepublik Deutschland

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tlx. 08 581 117 wgdu d

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tlx. 214 442 wgham d

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tlx. 05 212 916 wugm d

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7412 Eningen u. A.
Tel. (0 71 21) 89 15 10
tlx. 7 29 833 wug d
FAX (0 71 21) 8 84 04

Berlin (West)

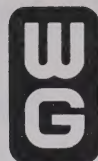
Wandel & Goltermann GmbH & Co.
Technisches Büro Berlin
Leberstraße 63
1000 Berlin 62
Tel. (0 30) 7 81 20 21
tlx. 01 85 544 wgbln d

Behörden

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Vertrieb Internationale Projekte
Goldberger Straße 112
4020 Mettmann
Tel. (0 21 04) 2 50 61
tlx. 8 581 117 wgdu d



PEGELMESSGERÄT PMG-3

zur Messung von Pegel, Geräusch und Frequenz
im Frequenzbereich 20 Hz bis 64 (110) kHz

TRANSMISSION MEASURING SET PMG-3

for measuring level, noise and frequency
in frequency range 20 Hz to 64 (110) kHz

APPAREIL DE MESURE DE NIVEAU PMG-3

pour les mesures des niveau, bruit et fréquence
entre 20 Hz et 64 (110) kHz

Anhang/Appendix/Annexe BN 9202/03; Serie M...

Best.-Nr. / Order No. / BN 9202/00.87
Numéro de commande

Ausgabe / 3330/12.85 (ersetzt / replaces / 3089)
Edition (remplace

I.12.81 Shf/Se
0.2.12.85

Änderungen vorbehalten
Printed in the Federal Republic of Germany

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Printed in the Federal Republic of Germany

Droits de modifications réservés
Imprimé en République Fédérale d'Allemagne

Inhaltsverzeichnis des Anhangs

PMG-3

1 Pegelmeßgerät PMG-3

BN 9202/03

Serie M ...

Contents of Appendix

PMG-3

1 AF Level Measuring Set PMG-3

BN 9202/03

Series M ...

Sommaire de l'annexe

PMG-3

1 Appareil de mesure de niveau PMG-3

BN 9202/03

Série M ...

Anmerkungen zu den Stromlaufplänen und den Schalteillisten

Abkürzungsbeispiele

④ = Stromlaufplan 4
820-8 = Leiterplatte 8
Pkt. 6 = Anschlußpunkt 6
TP 203 = Testpunkt 203

Farbkennzeichnung

bl = blau
blank = blank
br = braun
fl = farblos
ge = gelb
gn = grün
gr = grau
rs = rosa
rt = rot
Schirm = Schirm
sw = schwarz
vio = violett
ws = weiß
grt = grau/rot
geschirmte Leitung
blanker Draht
BS = Bestückungsseite
NBS = nicht bestückte Seite

Alle angegebenen Spannungen sind mit einem Instrument 100 kΩ/V gegen 0 V gemessen.
Relais in Ruhestellung dargestellt
Sollten die Werte bestimmter Bauelemente in den Stromlaufplänen und Schalteillisten differieren, so sind stets die Angaben in den Schalteillisten als verbindlich anzusehen.

Bestellangaben

Bei Ersatzteilbestellungen unbedingt beachten:
Die genaue Bezeichnung ist der Schalteilliste zu entnehmen.
Bauelemente mit BV bzw. WN sind im Werk anzufordern.
Neben der Bestellnummer (BN) ist die Gerätenummer mit Serienindex, die Positionsnummer des Bauelements und die Sachnummer anzugeben.

Beispiel: PM-20 BN 881/01
Nr. 0001 A
Schaltbild-Nr. 2 T 2
Positions-Nr. 0001-0015.836
Sach-Nr. 0001-0015.836

Baugruppenverbindungen

Da die Stromlaufpläne für jede Baugruppe getrennt gezeichnet sind, müssen alle Zuleitungen zu anderen Baugruppen deutlich erkennbar sein. Die nachstehende Skizze erläutert die hier angewandten Verfahren zur Kennzeichnung.
Verfahren 1
Beim Anschlußpunkt einer Baugruppe steht die Adresse der anderen Anschlußpunkte, mit denen er verbunden ist.
Verfahren 2
Beim Anschlußpunkt steht nur eine Signalbezeichnung ohne Adresse. Dann sind alle Anschlußpunkte anderer Baugruppen mit der gleichen Signalbezeichnung untereinander verbunden.

Notes for Circuit Diagram and the Parts Lists

Abbreviations examples

Circuit diagram 4
Circuit board 8
Connection point 6
Test point 203

Colour coding

blue
bare wire
brown
transparent
yellow
green
grey
pink
red
screening
black
violet
white
grey/red
Screened lead
Bare wire
Components side
Soldering side

All voltage ratings measured with respect to 0 V with 100 kΩ/V meter.
Relays shown in rest position
If the values of individual components listed in the circuit diagrams and component lists should differ from another, those values given in the component lists are valid.

Ordering Information

When ordering spare parts, the following instructions must be followed without fail:
The exact designation of the component shall be taken from the "Parts Lists".
Components prefixed with BV or WN should be ordered from the manufacturer, W&G.
Next to the order number (BN) the serial number of that particular instrument along with the position number of the component and the item number shall be given.

Example: PM-20 BN 881/01
No. 0001 A
Circuit diagram 2 T 2
Position No. 0001-0015.836
Item number 0001-0015.836

Connections between subassemblies

Because of each subassembly having been drawn separately, all the interconnections with the other subassemblies must be clearly identifiable. The following sketch explains the method used here for identifying the connections.
Method 1
At a connection point of a subassembly, there are located the addresses of the other connection points with which it is connected.
Method 2
At the connection point, there is only located a signal designation without address. Then, all similarly designated connection points of other subassemblies are interconnected.

Notes sur les schémas de principe et les listes de composants

Exemples d'abréviations

Schéma 4
Platine 8
Point de raccordement 6
Point test 203

Code des couleurs

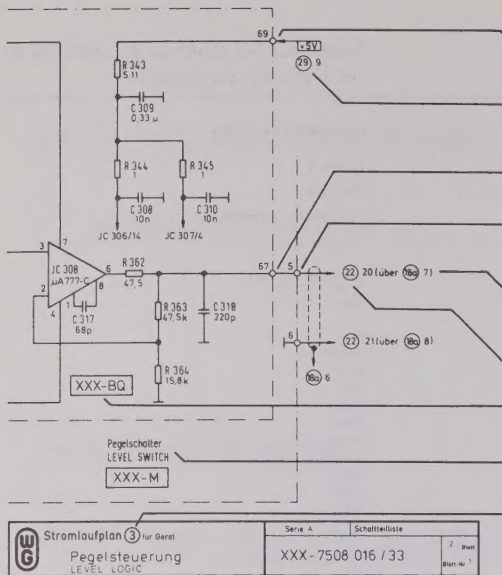
bleu
nu
brun
transparent
jaune
vert
gris
rose
rouge
blindage
noir
violet
blanc
gris/rouge
Conducteur blindé
Fil nu
Côté composants
Côté soudure

Toutes les tensions données sont mesurées par rapport à 0 V avec un instrument de 100 kΩ/V.
Les relais sont représentés en position repos
Lorsque les valeurs de certains composants diffèrent entre les schémas de principes et les listes de composants, les valeurs des listes de composants sont seules valables.
Données pour la commande
Pour la commande de composants de rechange il faut absolument observer:
La désignation exacte du composant qui est à prendre dans la liste des composants.
Les composants BV ou WN sont à réclamer à l'usine.
Outre le numéro de commande (BN) le numéro de l'appareil avec son index de série et le numéro de position du composant et numéro d'objet sont à donner.

Exemple: PM-20 BN 881/01
N° 0001 A
N° de schéma 2 T 2
N° de position 0001-0015.836
N° d'objet 0001-0015.836

Raccordement des modules

Les schémas de principe des modules étant représentés séparément les liaisons entre les différents modules doivent être facilement reconnues. Le schéma suivant indique le système d'identification utilisé.
Système 1
Le point de raccordement du module comporte l'adresse de l'autre point de raccordement auquel il est relié.
Système 2
Le point de raccordement ne comporte qu'une indication de signal sans adresse. Tous les points de raccordement des autres modules comportant la même indication de signal sont alors reliés ensemble.



Anschlußpunkt 69 der Leiterplatte 697-BQ
 + 5 V kommt von Stromlaufplan 29
 Anschlußpunkt 67 der Leiterplatte XXX-BQ geht auf Anschlußpunkt 5 der Trägerkarte XXX-M, von hier aus zu Stromlaufplan 18a Anschlußpunkt 7 und schließlich zu Punkt 20 des Stromlaufplanes 22
 Bezeichnung der Leiterplatte (Sandwichkarte)
 Bezeichnung der Trägerkarte
 Stromlaufplan Nr.

Connection point 69 of printed circuit board (p.c.b.) 697-BQ
 +5 V coming from circuit diagram 29
 Connection point 67 of the p.c.b. XXX-BQ going to connection point 5 of mother board XXX-M, and from this point, to circuit diagram 18a, connection point 7, finally going to point 20 of circuit diagram 22
 Designation of p.c.b. (sandwich card)
 Designation of mother board
 Circuit diagram No.

Point 69 du circuit imprimé 697-BQ
 le +5 V arrive du schéma 29, point 9
 le point 67 du circuit imprimé XXX-BQ va au point 5 de la carte support XXX-M, de là au schéma 18a, point 7 et pour terminer au point 20 du schéma 22
 Désignation du circuit imprimé (carte sandwich)
 Désignation de carte support
 N° du schéma de principe

Bezeichnung der Anschlußpunkte

(30) 21: Anschlußpunkt 21 von Schaltbild 30

(30) S 3010/a/5: Kontakt a/5 von Schalter 10 in Schaltbild 30

Beispiel: Der Anschlußpunkt M des Schaltbildes 29 mit der Signalbezeichnung "Null-Verschiebung (0,4)" ist mit 2 weiteren Anschlußpunkten der gleichen Signalbezeichnung verbunden.

1) Kontakt a/5 von Schalter 10 in Schaltbild 30 (Verbindung läuft ganz oder teilweise außerhalb des Steckkartenträgers)

2) bBW/7 von Schaltbild 31 (Verbindung läuft innerhalb des Steckkartenträgers)

Bei Steckkartentechnik mit einem Steckkartenträger gibt eine Liste Auskunft über die Anschlußpunkte mit gleicher Signalbezeichnung.

Designation of connection points

(30) 21: connection point 21 from circuit diagram 30

(30) S 3010/a/5: contact a/5 from switch 10 in circuit diagram 30

Example: Connection point M of circuit diagram 29 having the signal designation "zero offset (0,4)" is connected to two other connection points of the same signal designation.

1) Contact a/5 from switch 10 in circuit diagram 30 (connection passes completely, or partially, outside of the mother board)

2) bBW/7 from circuit diagram 31 (connection stays within the mother board)

With plug-in p.c.b. technology using plug-in mother boards, a list provides information concerning the connection points having the same signal designation.

Désignation des points de raccordement

(30) 21: point de raccordement 21 du schéma 30

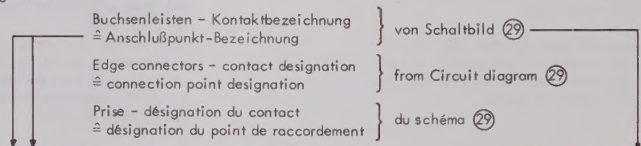
(30) S 3010/a/5: contact a/5 du commutateur 10 du schéma 30

Exemple: Le point de raccordement M du schéma 29 avec l'indication de signal "décalage du zéro (0,4)" est relié à deux autres points de raccordement avec la même indication de signal.

1) Contact a/5 du commutateur 10 du schéma 30 (la liaison passe entièrement ou en partie hors de la carte support)

2) bBW/7 du schéma 31 (la liaison passe dans la carte support)

Système de cartes enfichables sur une carte support. Une liste informe des points de raccordement avec la même indication de signal.



Signalbezeichnung	außerhalb Prüfbereich	Anschlußpunkte	innerhalb Prüfbereich	1	11	11	1	innerhalb Prüfbereich	Anschlußpunkte	außerhalb Prüfbereich	Signalbezeichnung	Leiste	
- 12 V			Stromversorgung siehe B1.16	36	V	18	18	Stromversorgung siehe B1.16			+ 12 V	(29)	
			frei	35	U	17	17	2 (31) Bw 3101 / 4			8×10^{-2}	376-CG	
4×10^{-2}			(31) Bw 3101 / 3	2	34	T	16	16	2 (31) Bw 3101 / 8	xxx	(30) 19	$2^2 \times 0,01 \text{ g}$	
$2^2 \times 0,01 \text{ g}$			(30) 18	xxx	(31) bBW / K	2	33	S	15	15	2 (31) bBW / J	xxx	(30) 17
$2^0 \times 0,01 \text{ g}$			(30) 16	xxx	(31) bBW / H	2	32	R	14	14	5 (18) B / B, (19) E / B, (20) A / B, (22) B / B		Bereich Digital
1×10^{-2}			(31) Bw 3101 / 1	2	31	P	13	13	2 (31) Bw 3101 / 2			2×10^{-2}	
Null - Verschiebung (0,2)			(30) S 3010 / a / 3	xxx	(31) bBW / 6	2	30	N	12	12	2 (31) bBW / 5	xxx	(30) S 3010 / a / 2
Null - Verschiebung (0,4)			(30) S 3010 / a / 5	xxx	(31) bBW / 7	2	29	M	11	11	2 (31) bBW / 4	xxx	(30) S 3010 / a / 4
Null - Verschiebung (0,6)			(30) S 3010 / a / 7	xxx	(31) bBW / 8	2	28	L	10	10	2 (31) bBW / 3	xxx	(30) S 3010 / a / 6
Null - Verschiebung (0,8)			(30) S 3010 / a / 9	xxx	(31) bBW / 9	2	27	K	9	9	2 (31) bBW / 2	xxx	(30) S 3010 / a / 8
Masse (hoch)			Stromversorgung siehe B1.16	26	J	8	8	Stromversorgung siehe B1.16					Masse (hoch)
Verschiebung 2^0			(19) E / 6, (22) B / 2, (23) U / 7	2	25	H	7	7	2 (31) bBW / 1	xxx	(30) S 3010 / a / 10	Null - Verschiebung (0,4)	
Verschiebung 2^1			(19) E / 5	2	24	F	6	6	2 (19) E / H			Verschiebung 2^1	
Verschiebung 2^2			(22) B / A	2	23	E	5	5	2 (19) E / 10			Verschiebung 2^2	
Vorzeichen $\frac{1}{2}$ / -			(30) 21	xxx	(31) bBW / 17, (19) E / W	3	22	D	4	4	2 (22) B / 4		Verschiebung 2^2
Verschiebung 2^1			(22) B / C	2	21	C	3	3	3 (20) A / 5, (21) G / F			$2^2 \times 0,01 \text{ g}$	
$2^2 \times 0,01 \text{ g}$			(20) A / K, (21) G / K	3	20	B	2	2	2 (20) A / L, (21) G / L			$2^1 \times 0,01 \text{ g}$	
+ 5 V			Stromversorgung siehe B1.16	19	A	1	1	2 (20) A / M, (21) G / N			$2^0 \times 0,01 \text{ g}$		

Anschlußpunkte mit gleicher Signalbezeichnung für diese Buchsenreihe
 Connection points with the same signal designation for this connector row of contacts
 Points de raccordement avec même indication de signal pour cette rangée de prises

außerhalb Prüfbereich xxx innerhalb Prüfbereich

außerhalb Prüfbereich $\hat{=}$ diese Anschlußpunkte sind durch Leitungen verbunden, die teilweise oder ganz außerhalb des Steckkartenträgers verlaufen.

outside of test region xxx within test region

outside of test region $\hat{=}$ these connection points are connected by lines which partially, or completely, pass outside of the mother board.

hors gamme de contrôle xxx dans la gamme de contrôle

hors gamme de contrôle $\hat{=}$ ces points de raccordement sont reliés par des conducteurs qui passent en partie ou entièrement hors de la carte support.

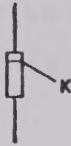
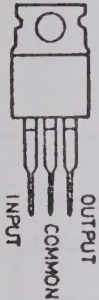
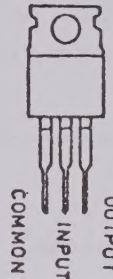
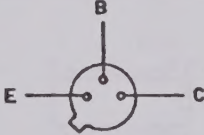
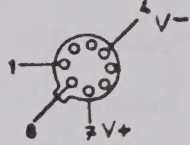
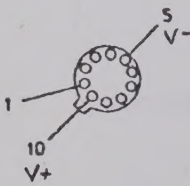
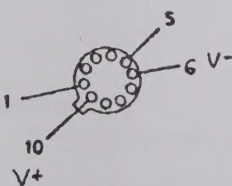
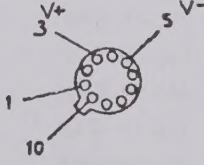
ELEKTRODENKENNZEICHNUNG

ELECTRODE DESIGNATION / DESIGNATION d'ELECTRODE

Sofern nicht anders vermerkt, alle Anschlußschemas von unten gesehen

Unless otherwise noted, all connection plans are seen from below

Sans autres indications tous les schémas de raccordement sont vus de dessous

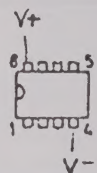
 1N4002 1N4448 1N5218 1N5226 1N5231 1N5235 1N5236 1N5353 HP 5082-2800	 HC 7815 CP	 HC 7915 CP	 LM317T
 LD 35 I LD 37 I	 LM329 BE	 BCY59 2N2219 2N2222 2N2905 2N3251 2N4393	 CA 3430
 LM339N	 HI 2-200-5	 AD 536 AJH	

Serie A...

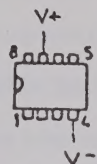
Bv. 9202-9480.004

2 B1
B1.1

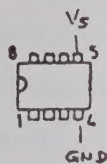
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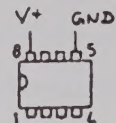
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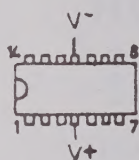
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LF356N
LF357BN



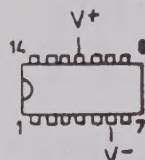
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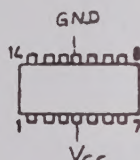
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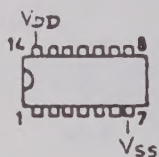
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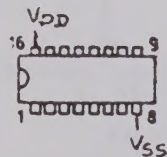
LM339N



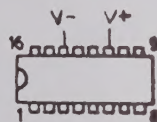
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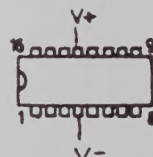
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MC14561



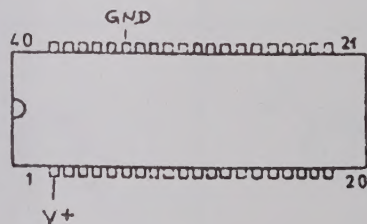
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MC14560
MC14569



HI5043-5



HI1-201-5



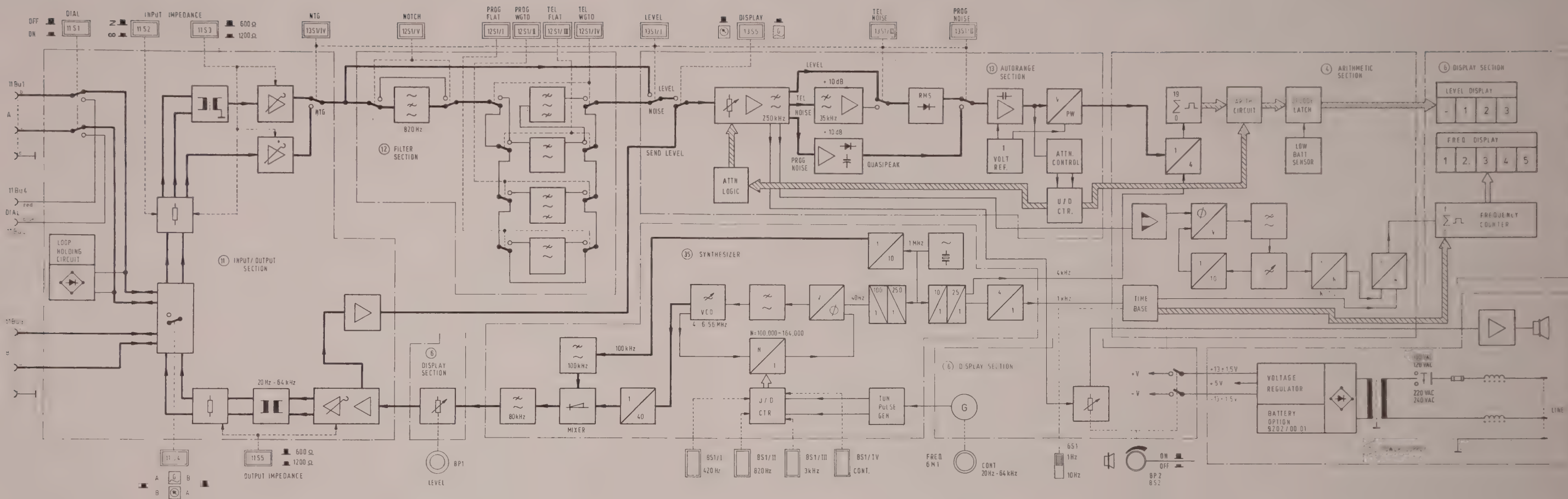
ICM7224 IPL

Serie A...

Bv. 9202-9480.004

2 B1
B1.2

1	Pegelmeßgerät	BN 9202/03
1	AF Level Measuring Set	BN 9202/03
1	Appareil de mesure de niveau	BN 9202/03



BLOCK DIAGRAM

(4) ARITHMETIC SECTION
(6) DISPLAY SECTION
(7) POWER SUPPLY
(11) INPUT/OUTPUT SECTION
(12) FILTER SECTION
(13) AUTORANGE SECTION
(35) SYNTHESIZER

ARITH. CIRCUIT
ATTN. CONTROL
ATTN. LOGIC

BATTERY

CONT.

DECODE LATCH
DIAL
DISPLAY

FLAT
FREQ.
FREQ. DISPLAY
FREQUENCY COUNTER

INPUT IMPEDANCE

LEVEL
LEVEL DISPLAY
LINE
LOOP HOLDING CIRCUIT

LOW BATT. SENSOR

MIXER

NOTCH
NOISE

OFF

ON
OUTPUT IMPEDANCE

QUASIPeAK

SEND LEVEL

TIME BASE
TUN. PULSE GEN.

VOLTAGE REGULATION
VOLT. REF.
WGTD

BLOCKSCHALTPLAN

(4) Rechnerkarte
(6) Anzeigeschaltung
(7) Netzteil
(11) Ein-/Ausgangsschaltung
(12) Filterkarte
(13) Pegelkarte
(35) Synthesizer

Rechnersteuerung
Dämpfungssteuerung
Dämpfungslogik

Batterie (Akku)

Fortlaufend

Dekodierungs-Latch
Wählen
Anzeige

Flach
Freq.
Freq.-Anzeige
Frequenzzähler

Eingangswiderstand

Pegel
Pegelanzeige
Netz
Gleichstromhalteschaltung

Batt.-Zustandskontrolle

Mischer

Notch-Filter
Rauschen

Aus

Ein
Ausgangswiderstand

Pseudo-Spitze

Sendepegel

Zeitbasis
Abstimmbare Impulserzeugung

Spannungsregler
Spannungsreferenz
Bewertet

SCHEMA SYNOPTIQUE

(4) Carte calculateur
(6) Circuit d'affichage
(7) Alimentation
(11) Section entrée/sortie
(12) Carte de filtre
(13) Carte de niveau
(35) Synthétiseur

Circuit calculateur
Commande d'affaiblissement
Logique d'affaiblissement

Batterie (accu.)

Cont.

Verrouillage décodage
Cadran
Affichage

Plat
Fréq.
Affichage fréq.
Fréquencemètre

Impédance d'entrée

Niveau
Affichage de niveau
Réseau
Boucle de maintien du courant
continu
Capteur tension batterie basse

Mélangeur

Filtre à coupure brusque
Bruit

Arrêt

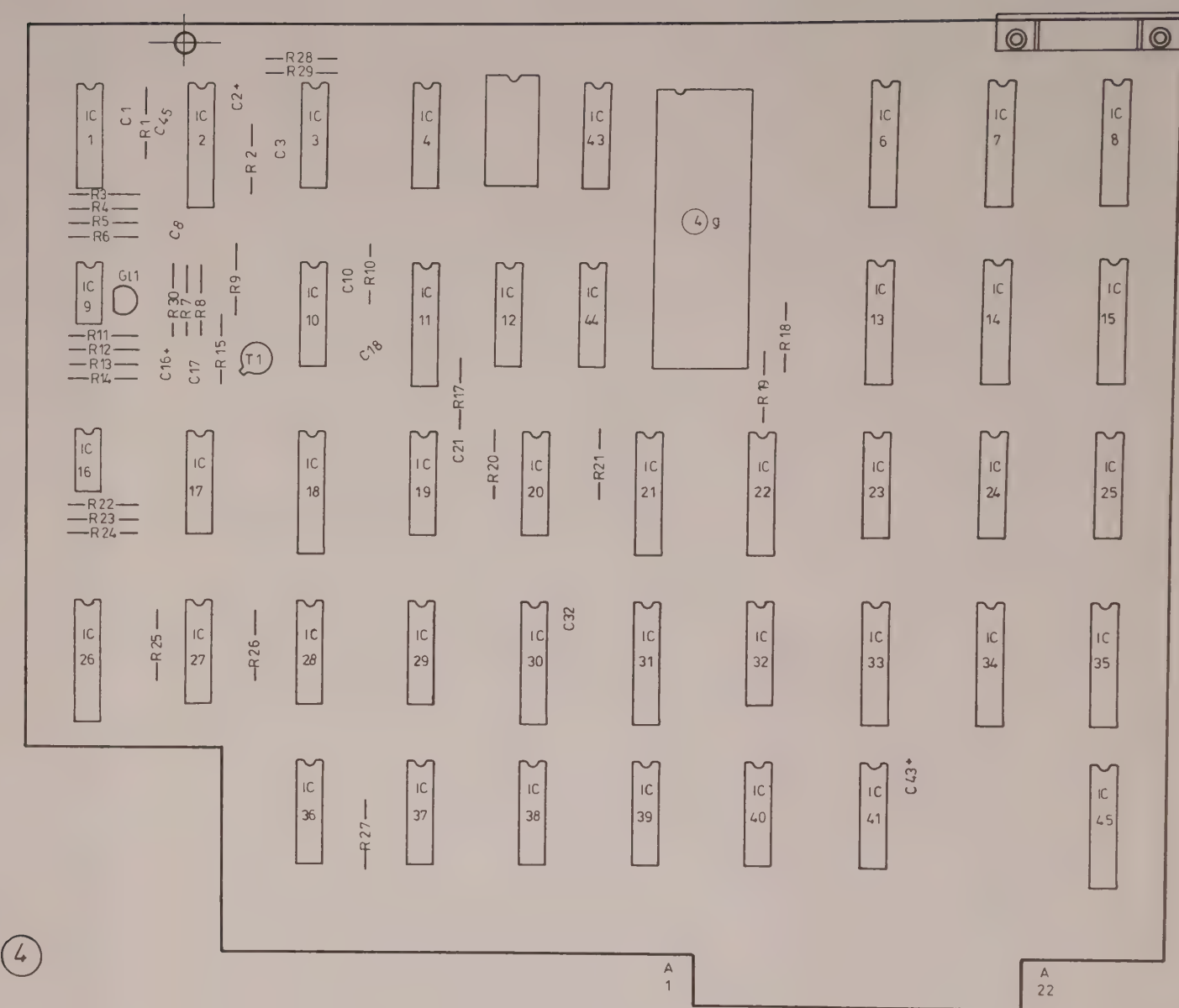
Marche
Impédance de sortie

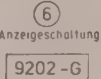
Quasi-crête

Niveau d'émission

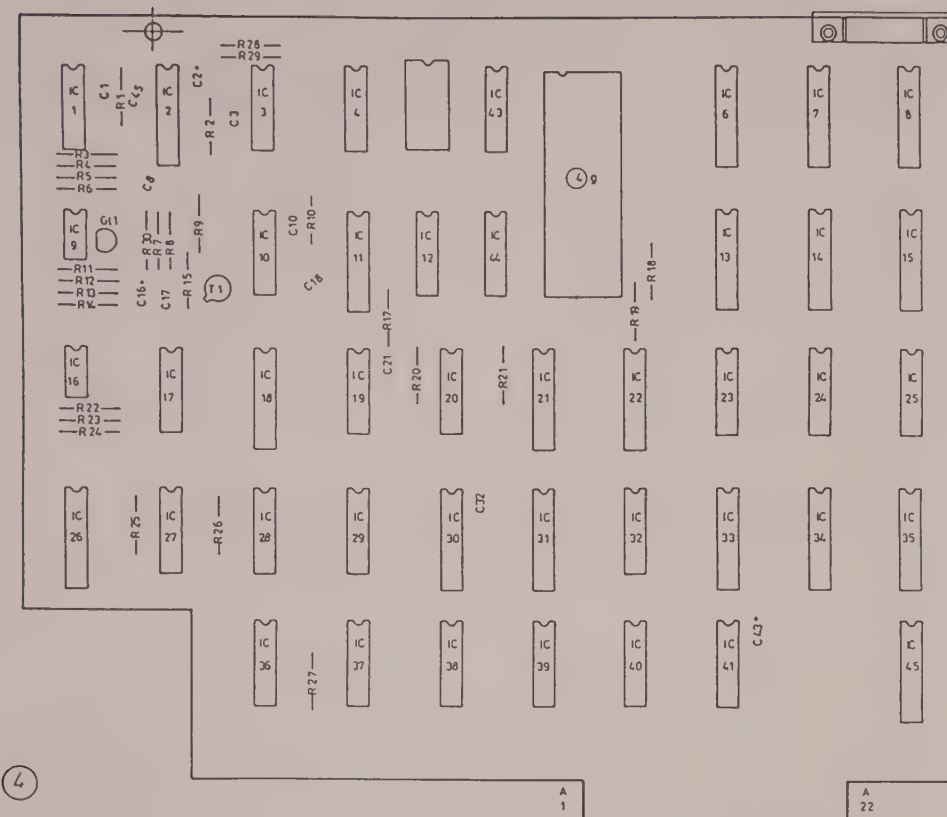
Base de temps
Générateur d'impulsions d'accord

Stabilisateur de tension
Volt. réf.
Pondéré

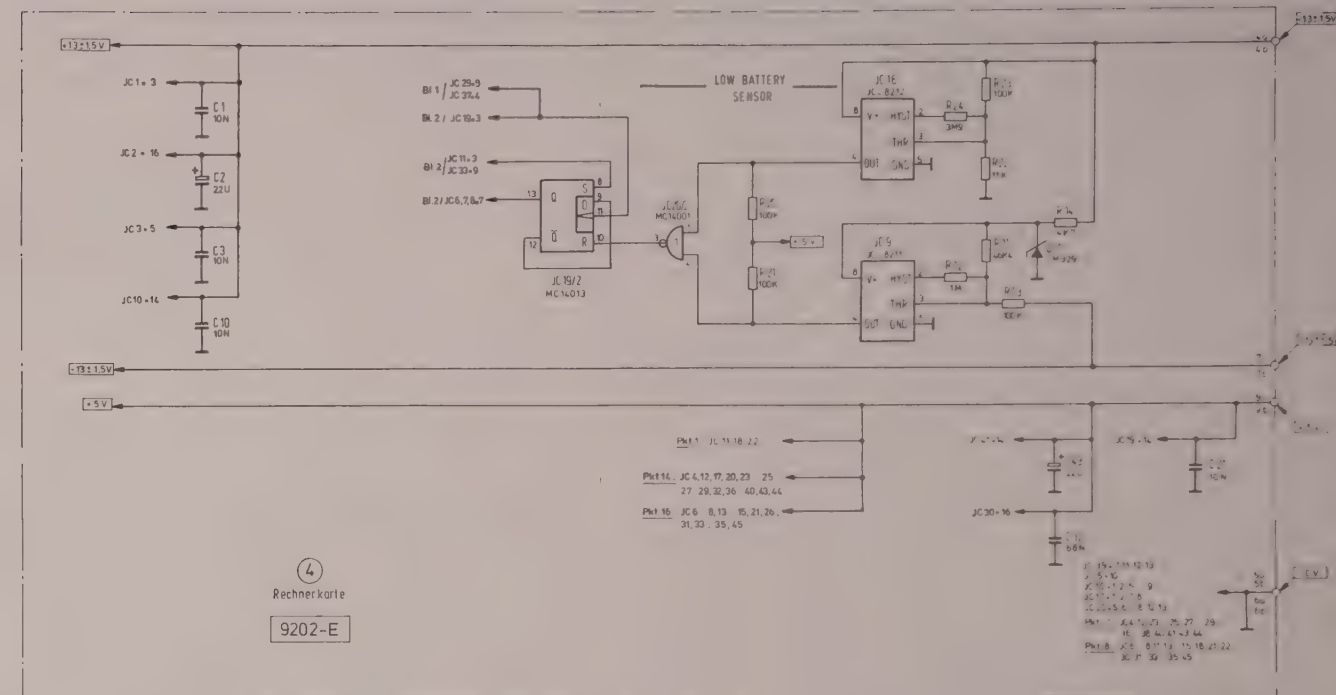


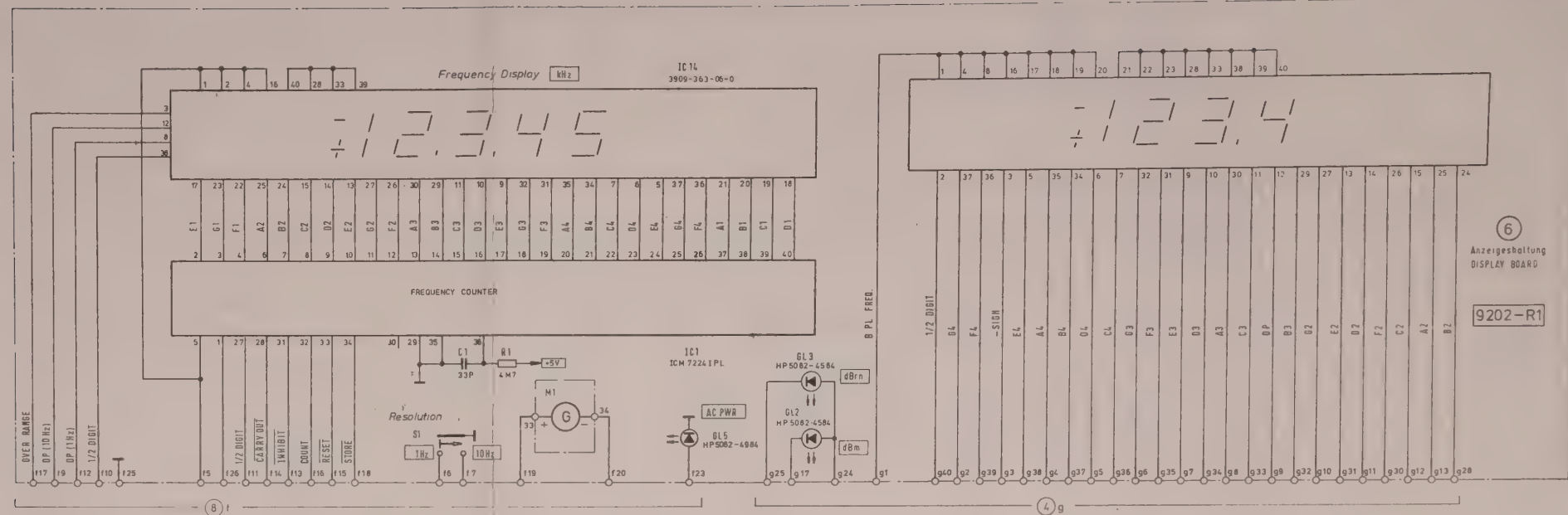



Stromlaufplan für Gerät **BN 9202** **VF-1**
Rechnerkarte **BN 9202** **PM-3**
ARITHMETIC BOARD

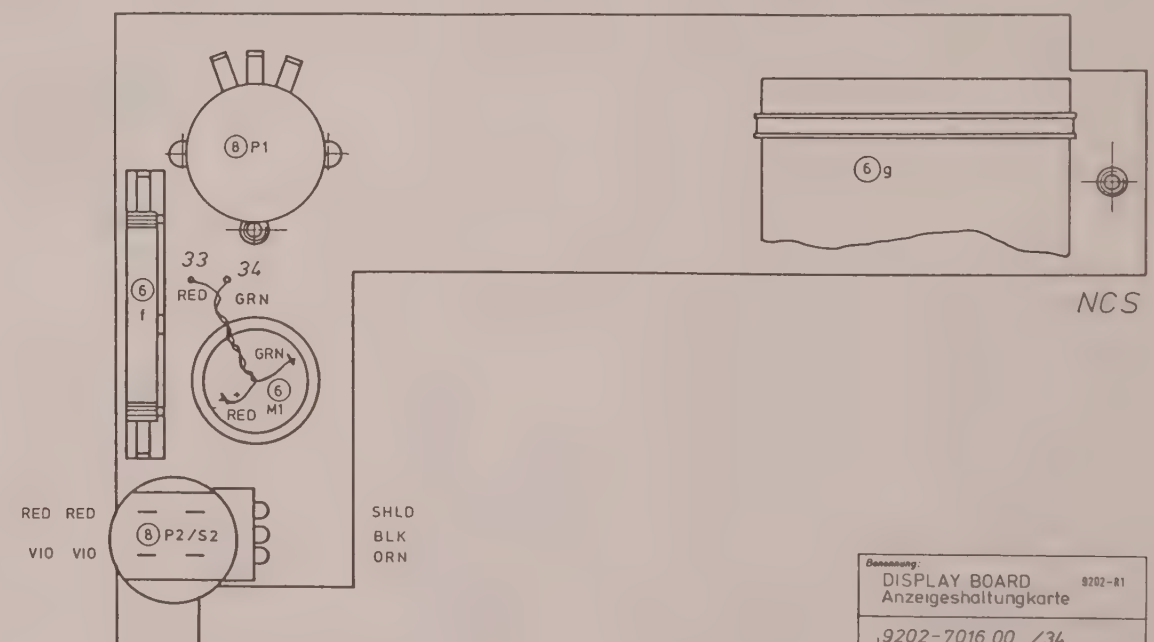
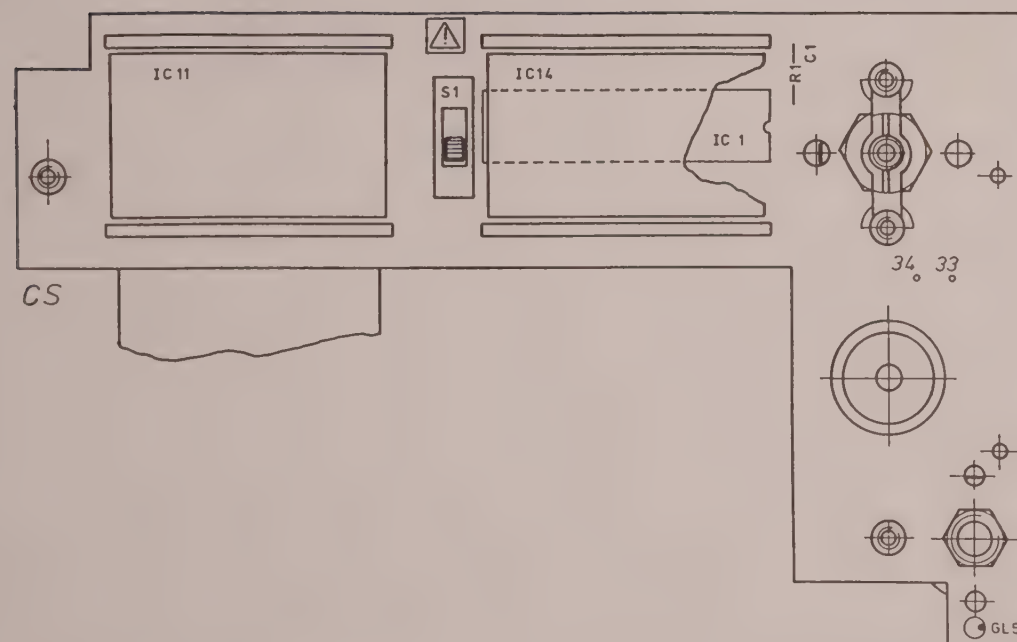


Benennung
 ARITHMETIC BOARD
 ASSEMBLED 9202-E
 9202-7004.00 13





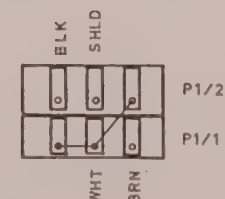
GL2, GL3, used on 9202-G1 (VF-1) only

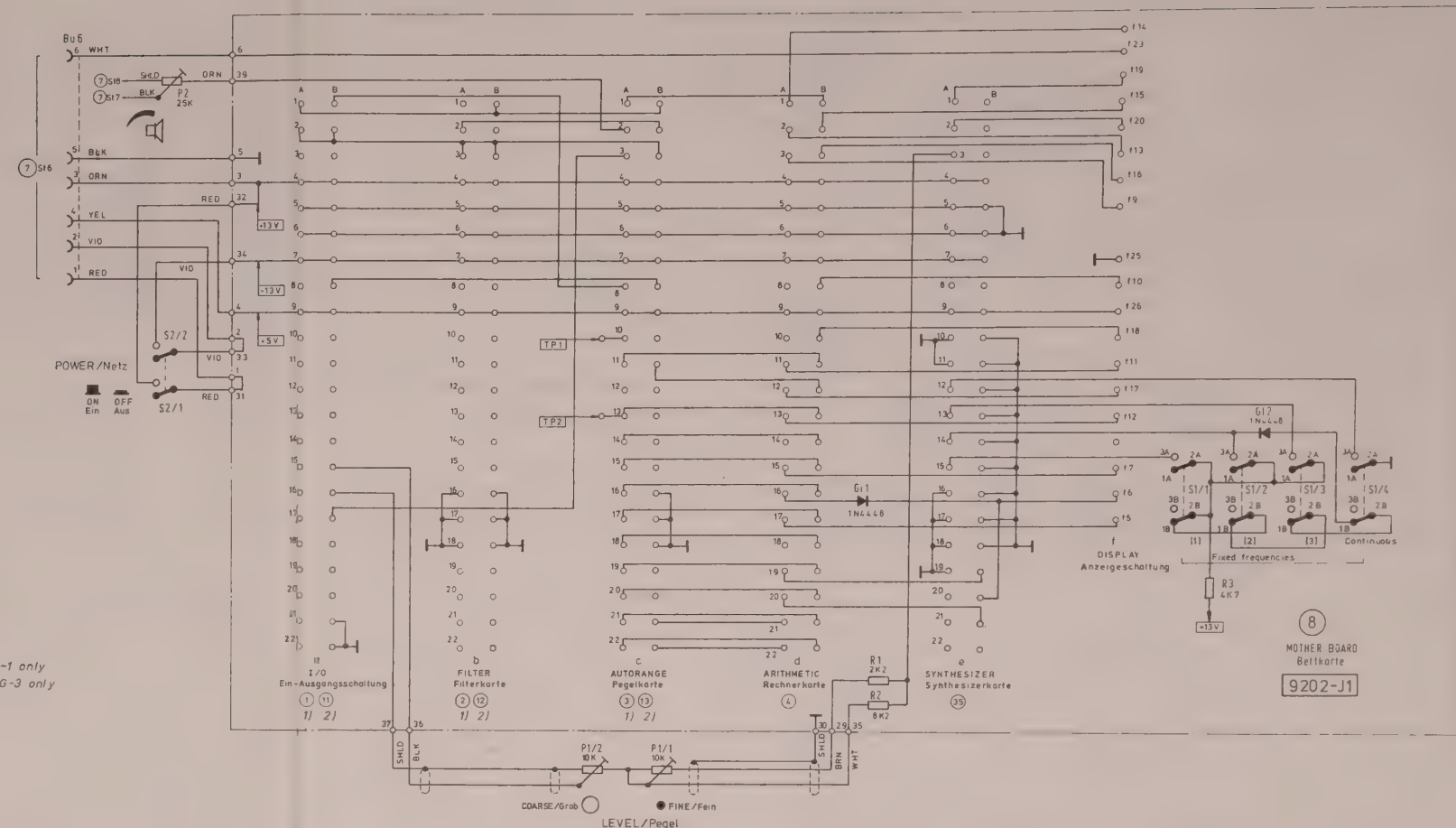


(6) DISPLAY BOARD
CARRY OUT
COUNT
FREQ. DISPLAY
FREQUENCY COUNTER
INHIBIT
OVER RANGE
RESOLUTION
RESET
STORE

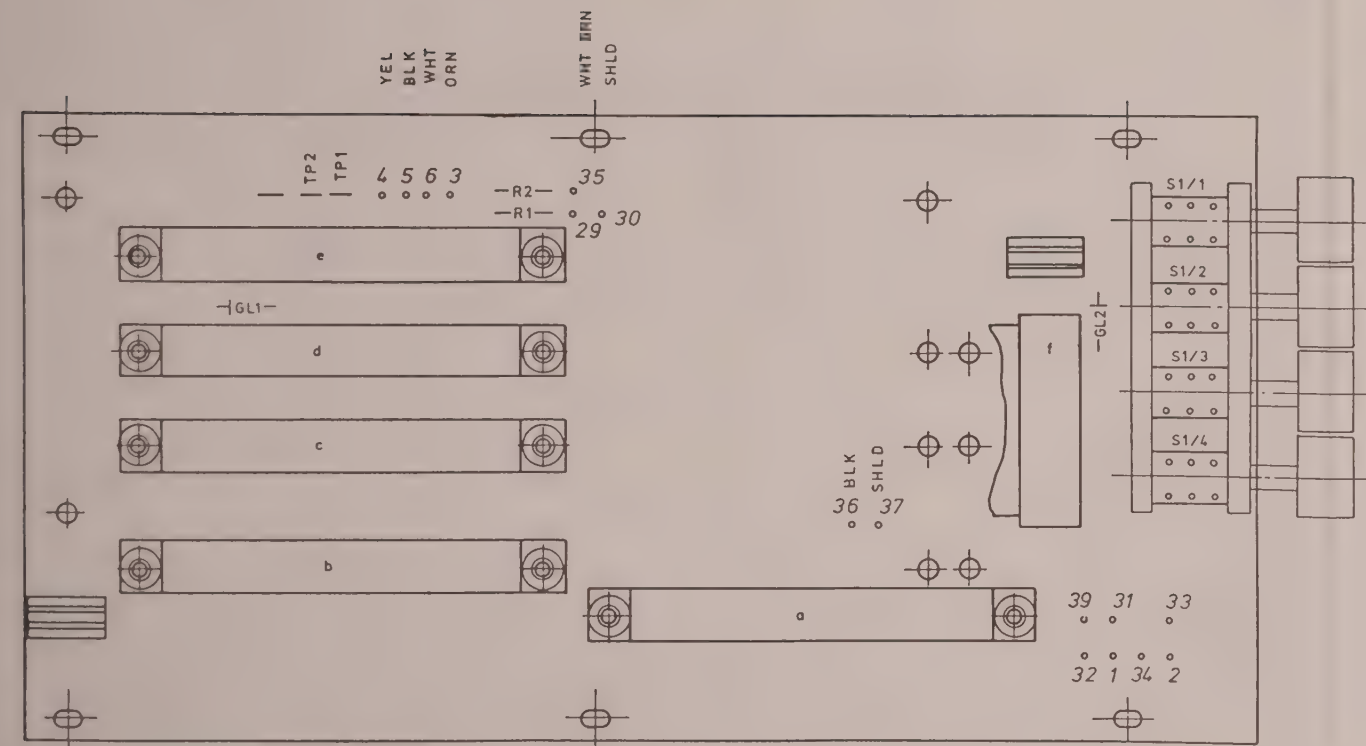
(6) Anzeigeschaltung
Carry-Ausgang
Zählen
Frequenzanzeige
Freq.-Zähler
Sperren
Außerhalb des Bereichs
Auflösung
Rückstellen
Speichern

(6) Circuit d'affichage
Sortie report
Comptage
Affichage fréq.
Compteur de fréquence
Blocage
Hors gamme
Résolution
Remise à zéro
Mémoire





1) VF-1 only
2) PMG-3 only



(8) MOTHER BOARD	(8) Bettkarte	(8) Support de carte
ARITHMETIC SECTION	Rechnerkarte	Carte calculateur
AUTORANGE SECTION	Pegelkarte	Carte niveau
COARSE CONTINUOUS	Grob Kontinuierlich	Gros Continu
DISPLAY SECTION	Anzeigeschaltung	Circuit d'affichage
FILTER SECTION	Filterkarte	Carte filtre
FINE FIXED FREQUENCIES	Fein Festfrequenzen	Fin Fréquences fixes
INPUT/OUTPUT SECTION	Ein-/Ausgangsschaltung	Section entrée/sortie
LEVEL	Pegel	Niveau
OFF ON ONLY	Aus Ein Nur	Arrêt Marche Seulement
POWER SUPPLY	Netzteil	Alimentation
SYNTHESIZER	Synthesizer	Synthétiseur

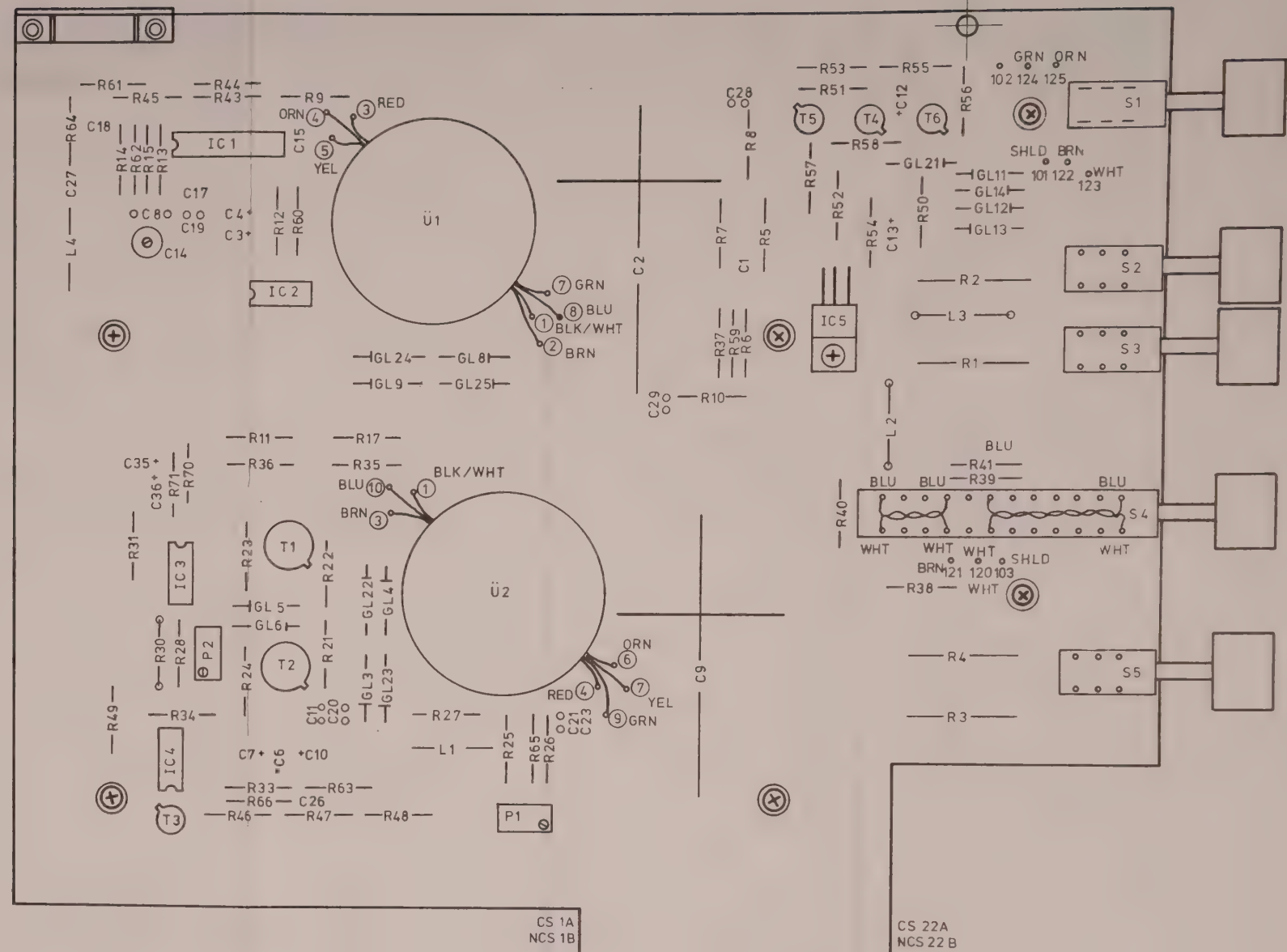
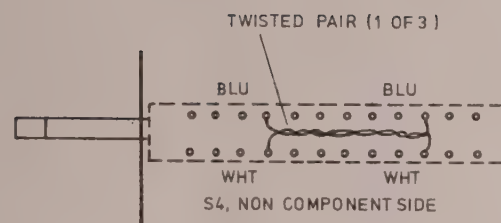
Benennung
MOTHER BOARD
Bettkarte
9202-J1
ASSEMBLED
9202-7008.00 /3

Signalbezeichnung Signal designation Désignation Signal	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Anschlußpunkte Connection points Points de raccordement	innerhalb Prüfbereich within test area dans la zone de contrôle	① ⑪	innerhalb Prüfbereich within test area dans la zone de contrôle	Anschlußpunkte Connection Points Points de raccordement	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Signalbezeichnung Signal designation Désignation Signal
				b — a				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
GND				22				—
GND				21				—
—				20				—
—				19				—
—				18				—
Tx Signal			(13) 3a	17				—
Signal GND			(8) 37	16				—
f in			(8) 36	15				—
—				14				—
—				13				—
—				12				—
—				11				—
—				10				—
+5V				9				+5V
Gen. Int. Signal Squelch			(13) 8b	8				—
-13V				7				-13V
GND				6				GND
GND				5				GND
+13V				4				+13V
—				3				—
Signal GND			(11) 2a, (12) 3a/b, (13) 3b	2	(11) 2b, (12) 3a/b, (13) 3b			Signal GND
NTG (Noise to Ground)			(13) 8a	b 1 a	(12) 1b, (13) 1b			Rx Signal

Signalbezeichnung Signal designation Designation Signal	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Anschlußpunkte Connection points Points de raccordement	innerhalb Prüfbereich within test area dans la zone de contrôle	③ 13	innerhalb Prüfbereich within test area dans la zone de contrôle	Anschlußpunkte Connection Points Points de raccordement	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Signalbezeichnung Signal designation Désignation Signal
				b — a				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
20Hz ... 110kHz		(4)22a	22	(4)22b			80	
NTG; 10dB Correction		(4)21a	21	(4)21b			40	
—			20	(4)20b			20	
—			19	(4)19b			10	
GND			18	(4)18b			8	
GND			17	(4)17b			4	
GND			16	(4)16b			2	
—			15	(4)15b			1	
—			14	(4)14b			Gate	
—			13	(4)13b, (8)TP2			Gate	
—			12				—	
A to D Cycle Start		(4)12b	11	(4)11b			≤ -70	
—			10	(8)TP1			Test	
+5V			9				+5V	
Gen. Meas. Signal Squelch		(11)8b	8	(11)1b			NTG	
-13v			7				-13V	
GND			6				GND	
GND			5				GND	
+13V			4				+13V	
Signal GND		(11)2a /b, (12)3a /b	3	(11)17b			Tx Signal	
Weighted Rx Signal		(12)2a	2	(8)39			Audio Out	
Rx Signal		(11)1b, (12)1b	b 1 a	(4)1b			NTG, 40dB Correction	

Signalbezeichnung Signal designation Designation Signal	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Anschlußpunkte Connection points Points de raccordement	innerhalb Prüfbereich within test area dans la zone de contrôle	4	innerhalb Prüfbereich within test area dans la zone de contrôle	Anschlußpunkte Connection Points Points de raccordement	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Signalbezeichnung Signal designation Désignation Signal
				b — a				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
80			(13) 22 a	22	(13) 22 b			20 Hz ... 110 kHz
40			(13) 21 a	21	(13) 21 b			Level
20			(13) 20 a	20	(35) 21 b			4 kHz Ref
10			(13) 19 a	19	(35) 19 b			1 kHz Ref.
8			(13) 18 a	18				—
4			(13) 17 a	17	(6) f 5			BPF In
2			(13) 16 a	16	(8) G1 1			1 Hz Resolution
1			(13) 15 a	15	(6) f 7			10 Hz Resolution
Gate			(13) 14 a	14				—
Gate			(8) TP 2 , (13) 13 a	13	(6) f 12			DP (10 Hz)
A to D Cycle Start			(13) 11 b	12	(6) f 17			1/2 Digit out
≤ - 70			(13) 11 a	11	(6) f 11			1/2 Digit in
Store			(6) f 18	10				—
+5V				9				+5V
Over Range			(6) f 10	8				—
-13V				7				-13V
GND				6				GND
GND				5				GND
+13V				4				+13V
Count			(6) f 16	3	(6) f 9			DP (1 Hz)
Reset			(6) f 15	2	(6) f 13			Inhibit
Noise to Ground			(13) 1 a	b 1 a	(6) f 14			Carry In

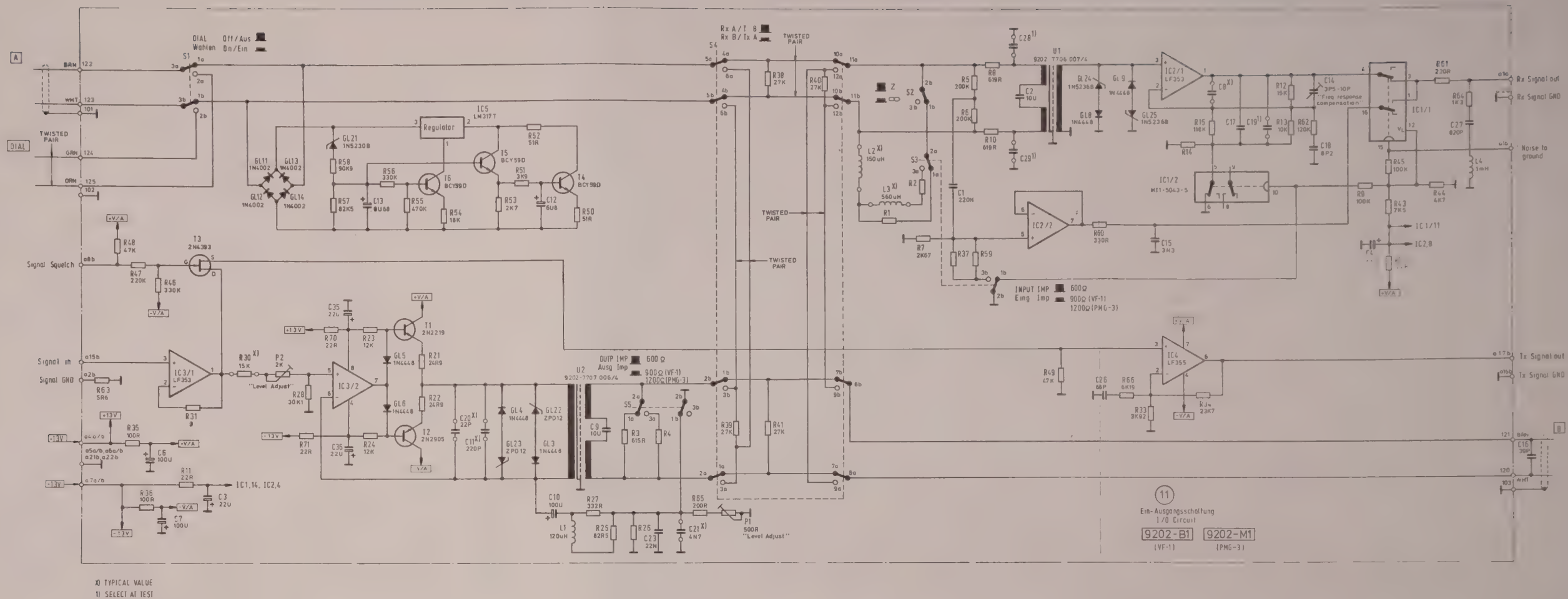
Signalbezeichnung Signal designation Designation Signal	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Anschlußpunkte Connection points Points de raccordement	innerhalb Prüfbereich within test area dans la zone de contrôle	(35)	innerhalb Prüfbereich within test area dans la zone de contrôle	Anschlußpunkte Connection Points Points de raccordement	außerhalb Prüfbereich outside of test area hors de la zone de contrôle	Signalbezeichnung Signal designation Désignation Signal
				b — a				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				—				
				22				
4 kHz Ref.			(4) 20a	21				
10 Hz / 1 Hz Resolution			(8) GI1, (6) f6	20				
1 kHz Ref.			(4) 19a	19				GND
GND				18				GND
GND				17				GND
GND				16				GND
GND				15	(8) S1, 3a			Fixed frequency 1
GND				14	(8) S2, 3a; (8) GI2			Fixed frequency 2
GND				13	(8) S3, 3a			Fixed frequency 3
GND				12	(8) S4, 3a			Continuous Run
GND				11				GND
GND				10				GND
+5 V				9				+5 V
				8				
-13 V				7				-13 V
GND				6				GND
GND				5				GND
+13 V				4				+13 V
				3	(8) R1, (8) R2			f out
				2	(6) f 20			Generator (+)
				b 1 a	(6) f 19			Generator (—)



11 9202-M1

R70, R71, C35 and C36 add series M

PMG-3	VF-1
R1 810R	515R
R2 1245R	930R
R4 1255R	930R
R14 8K25	3K52
R26 318K	178K
R37 13K	11K8
R58 13K	—
C8 39P41	27P
C17 39P	33P
C18 5A1	—



(11) INPUT/OUTPUT SECTION
... ADD SERIES M ...

DIAL

FREQ. RESPONSE
COMPENSATION

INPUT IMP.
ITEM NUMBER(S) NOT SHOWN

LEVEL ADJUST

"NOISE TO GROUND"

OFF/ON
OUTPUT IMP.

REGULATOR

SIGNAL GND
SIGNAL IN
SIGNAL OUT
SIGNAL SQUELCH

TWISTED PAIR

x) TYPICAL VALUE

1) SELECT AT TEST

(11) Ein-/Ausgangsschaltung
... zusätzlich in Serie M ...

Wählen

Frequenzgang-
Kompensation

Eingangsimpedanz
Teilnummer(n) nicht angeführt

Pegeleinstellung

"Rauschen gegen Masse"

AUS/EIN
Ausgangs impedanz

Regler

Signalerde
Signaleingang
Signalausgang
Signalausblendung

Verdrillt

x) Typischer Wert

1) Wählen bei Test

(11) Section entrée/sortie
... en plus, séries M ...

Cadran

Réponse en fréquence
compensation

Impédance d'entrée
Numéros non visible

Règlage de niveau

"Bruit par rapport à la masse"

Arrêt/Marche
Impédance de sortie

Régulateur

Masse de signal
Entrée signal
Sortie signal
Coupure signal

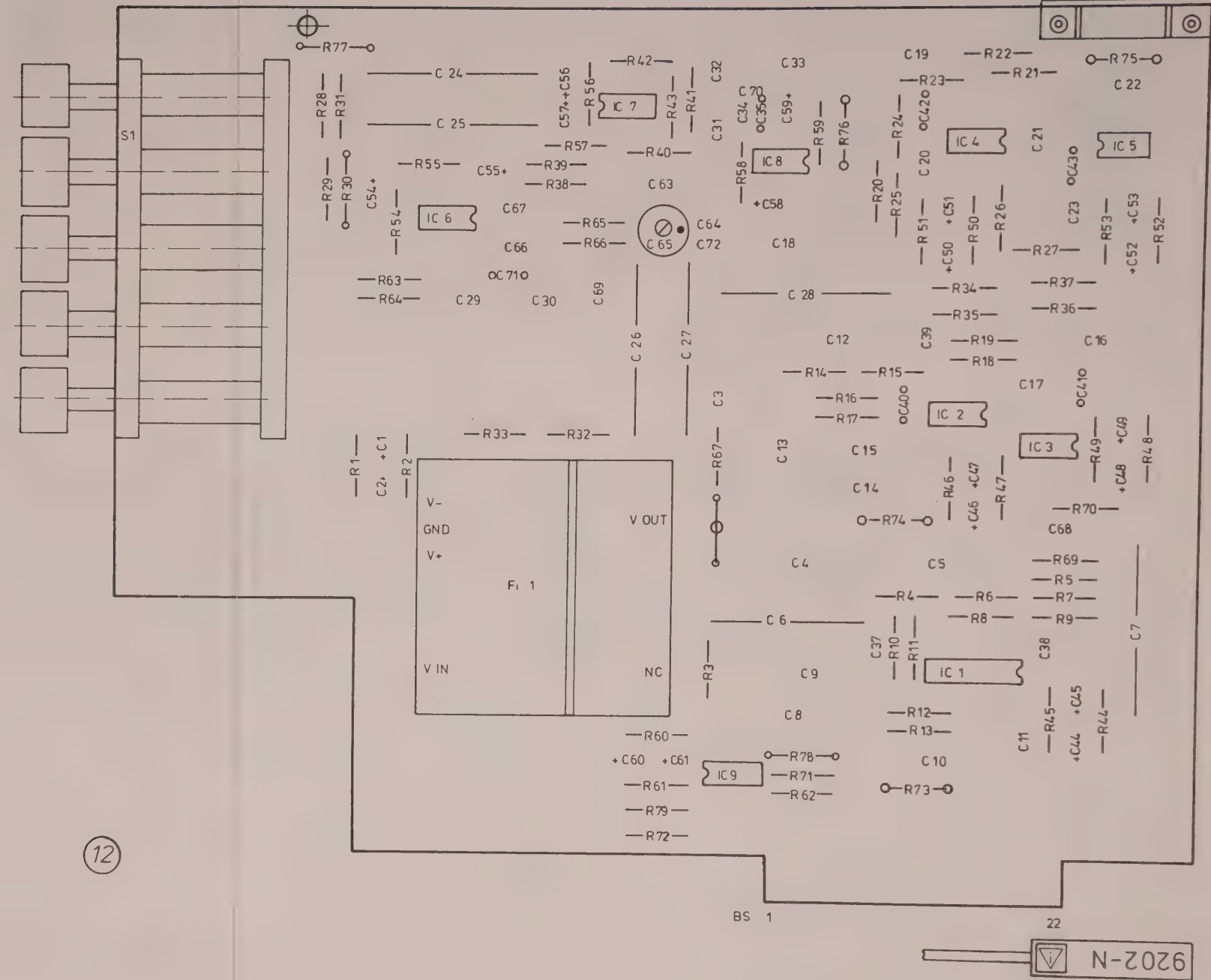
Torsadé

x) Valeur type

1) Sélectionné au test

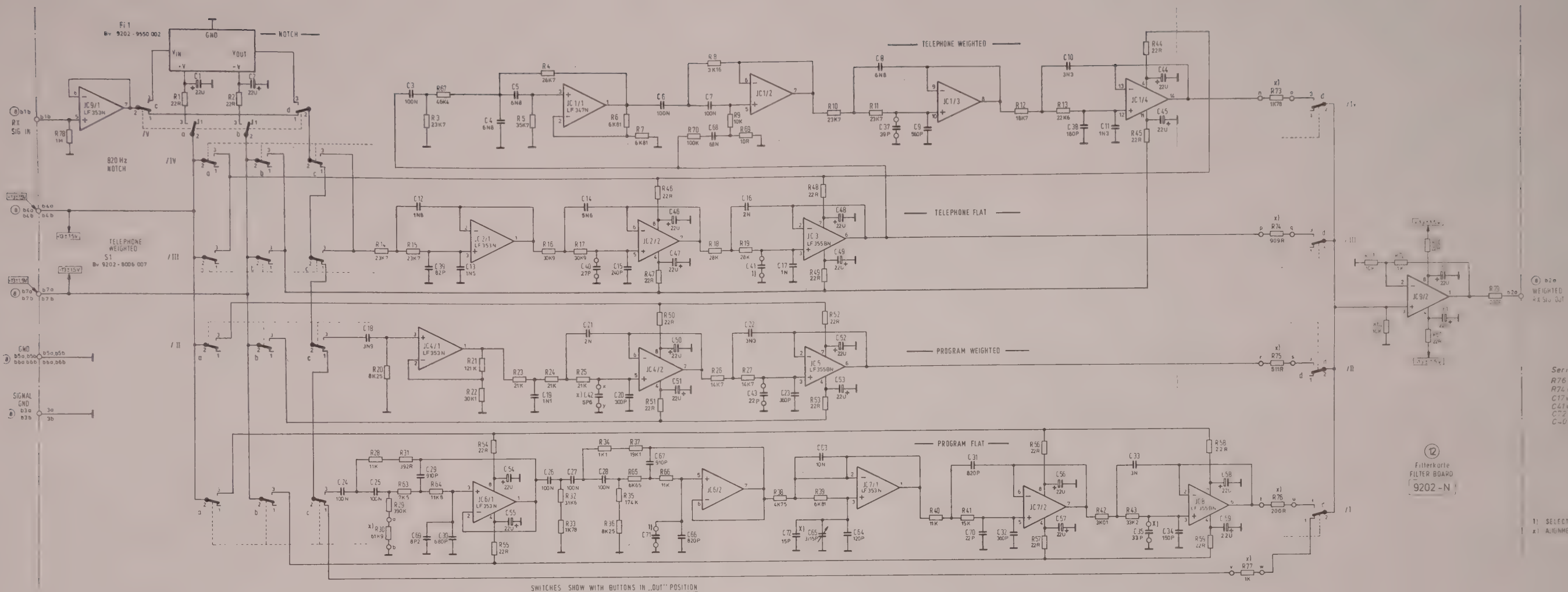
PMG-3, Series M / VF-1, Series G

Ein-Ausgangsschaltung 1/0 Circuit	Serie	9202-7511 030/33	1 Blatt
--------------------------------------	-------	------------------	---------



C38, C41, C42, C43, C69, C35, C37, C40, C71, C73, R30, R73, R74, R75, R76, R77 ALIGNMENT VALUE

Benennung	
FILTER BOARD	
ASSEMBLED	9202-N
9202-7012.00 13	



(12) FILTER BOARD

GND

NOTCH

PROGRAM FLAT
 PROGRAM WEIGHTED

SWITCHES SHOWN WITH BUTTONS
 IN "OUT" POSITION

TELEPHONE FLAT
 TELEPHONE WEIGHTED

WEIGHTED

1) SELECT AT TEST

x) ALIGNMENT VALUE

(12) Filterkarte

Masse

Lücke

Programme "Unbewertet"
 Programme "Bewertet"

Schalter dargestellt mit
 Tasten in "AUS"-Stellung

Fernsprechen "Unbewertet"
 Fernsprechen "Bewertet"

Bewertet

1) Wählen bei Test

x) Abgleichwert

(12) Carte filtre

Masse

Filtre à coupure brusque

Programme "non pondérée"
 Programme "pondérée"

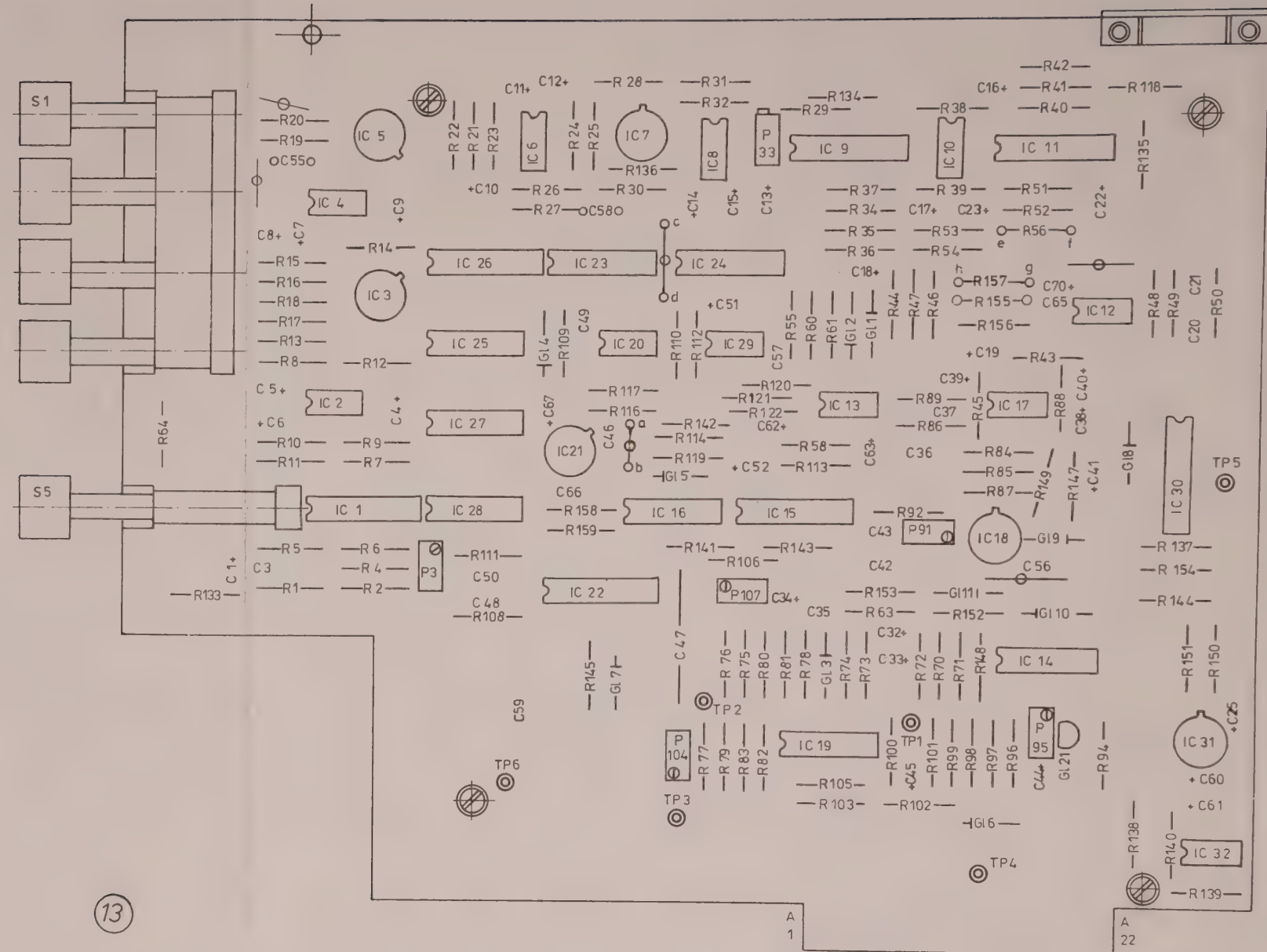
Commutateurs vus avec touches en
 position "arrêt"

Voie téléphonique "non pondérée"
 Voie téléphonique "pondérée"

Pondéré

1) Sélectionné au test

x) Valeur de réglage

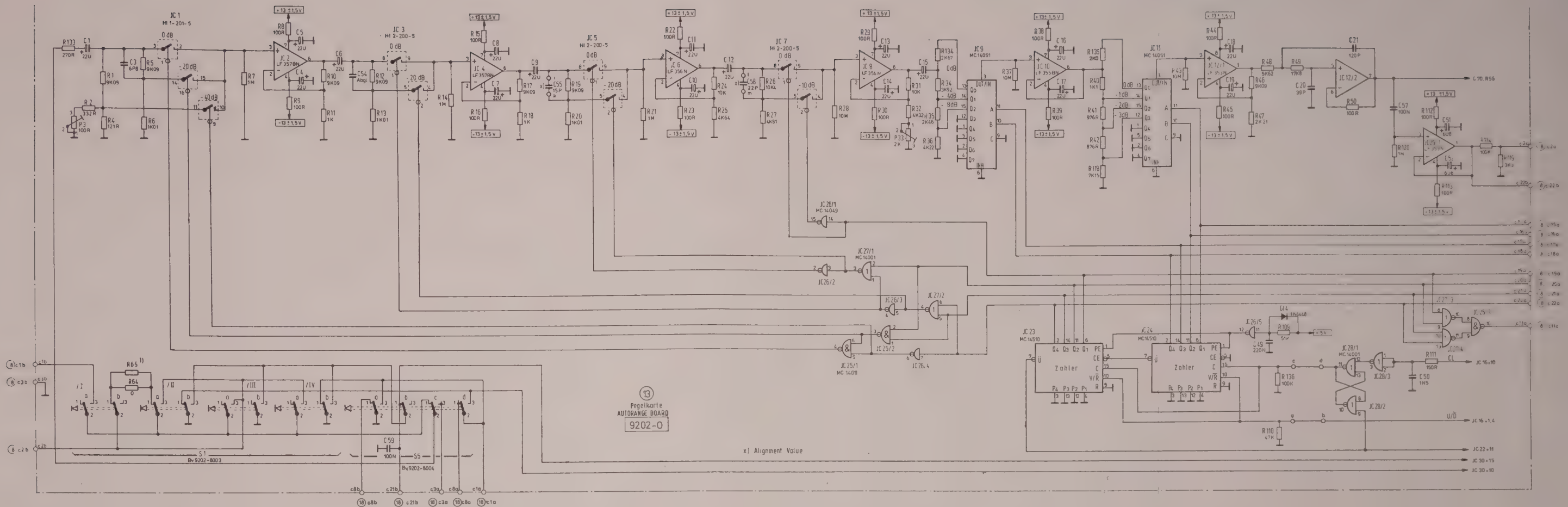


13

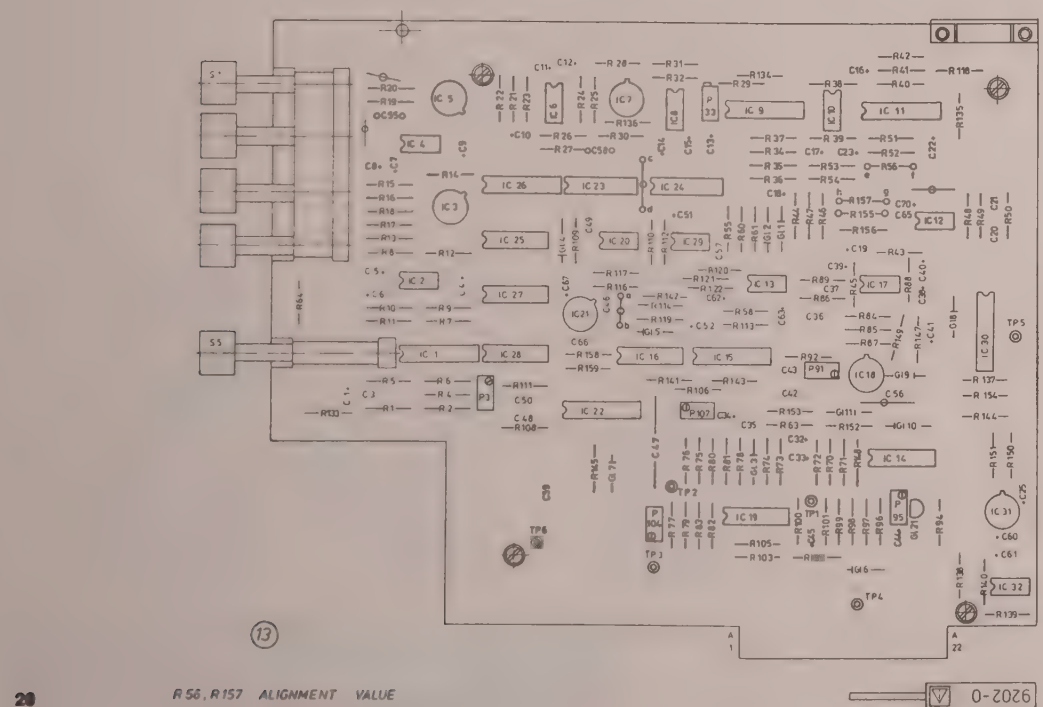
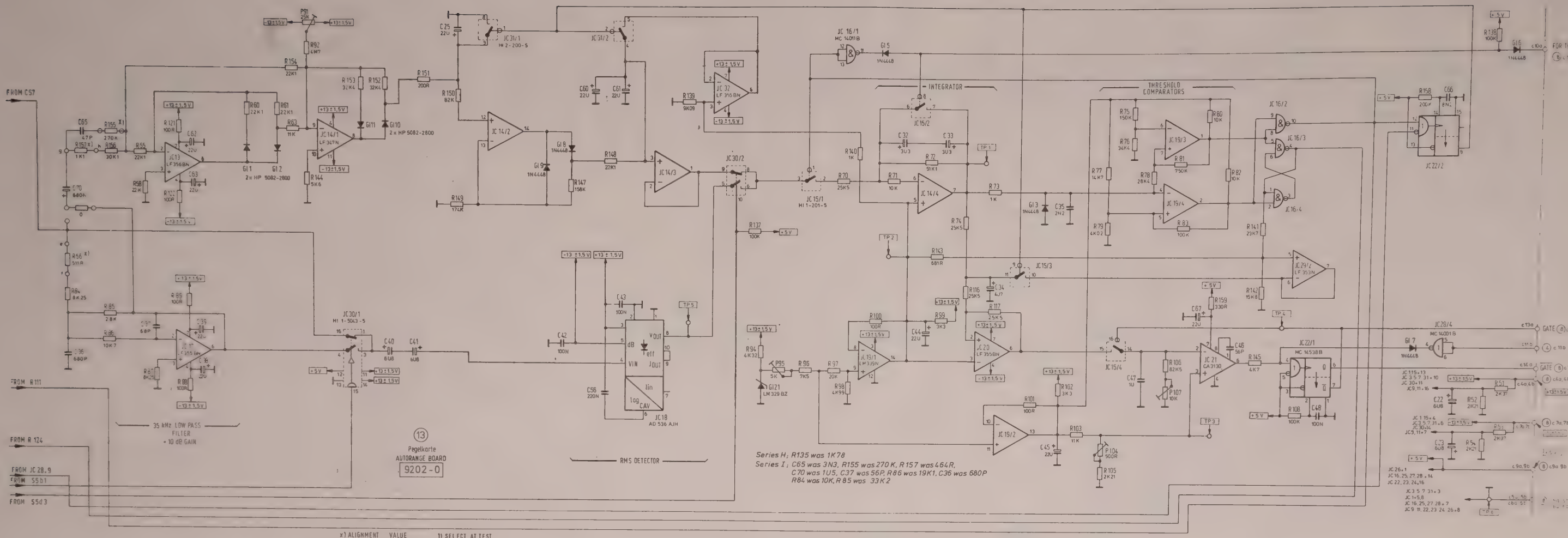
9202-0

R 56, R 157 ALIGNMENT VALUE

Benennung
AUTORANGE BOARD
ASSEMBLED
9202-0
9202-7013.00 1 3 1



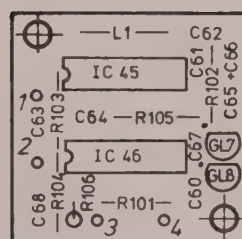
(13) AUTORANGE BOARD	(13) Pegelkarte	(13) Carte de niveau
COUNTER	Zähler	Compteur
FOR TEST FROM	Zum prüfen Von	Pour essai De
GATE	Tor	Opérateur, porte
INTEGRATOR	Integrator	Intégrateur
... LOW PASS FILTER ... GAIN	... Tiefpaßfilter ... Verstärkung	... filtre passe-bas ... gain
RMS DETECTOR	Effektivwert-Gleichrichter	Redresseur valeur efficace
THRESHOLD COMPARATORS	Schwellenkomparator	Comparateur de seuil
1) SELECT AT TEST	1) Wählen bei Test	1) Sélectionné au test
x) ALIGNMENT VALUE	x) Abgleichwert	x) Valeur de réglage



Benennung
 AUTORANGE BOARD
 ASSEMBLED
 9202-0
 9202-7013.00 / 3

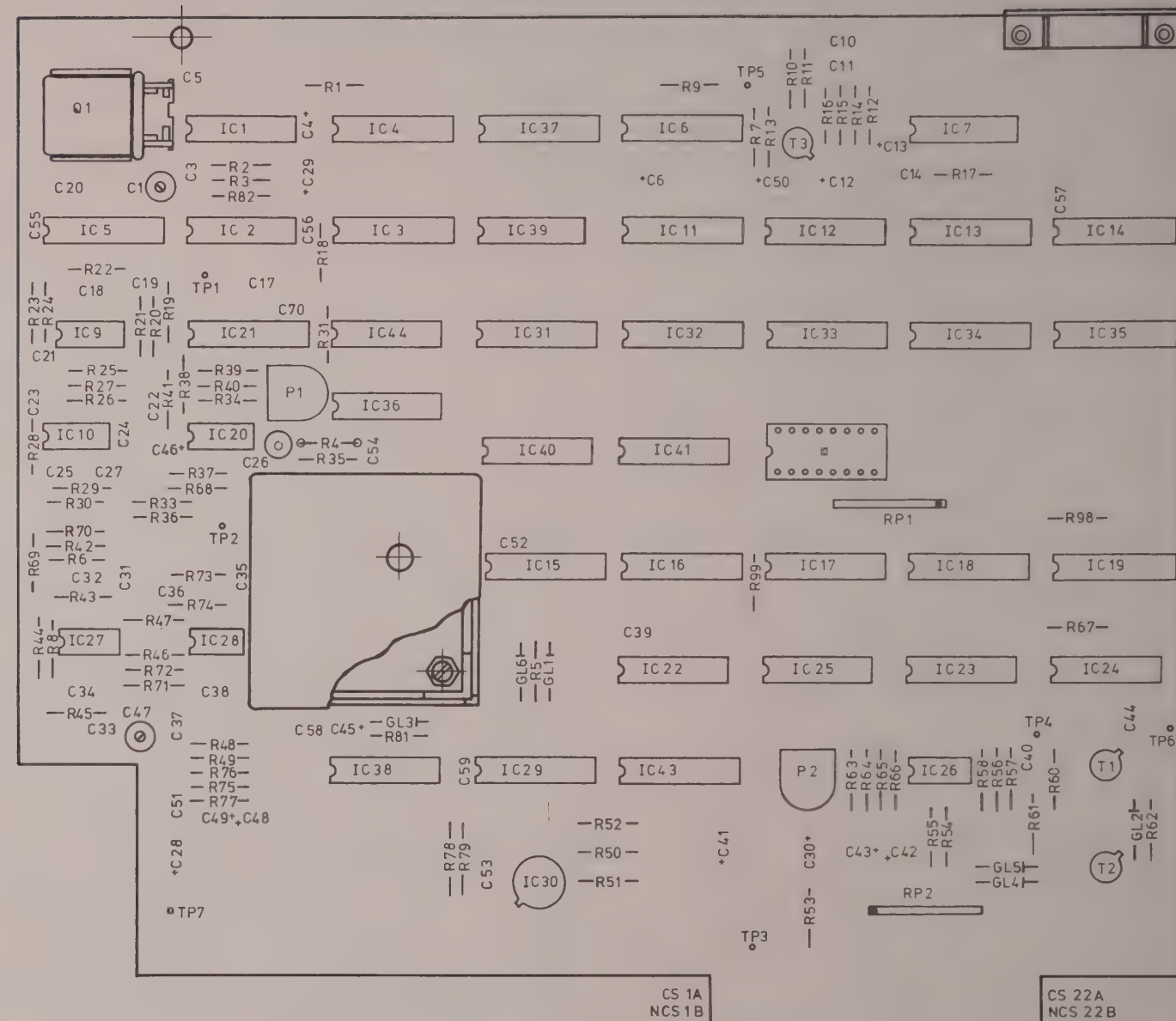
Bestückungszeichnung 1:1 siehe Seite 18
 Component drawings are 1:1, see Page 18
 Disposition des composants en grandeur réelle, voir page 18

(13) AUTORANGE BOARD	(13) Pegelkarte	(13) Carte de niveau
COUNTER	Zähler	Compteur
FOR TEST	Zum prüfen	Pour essai
FROM	De	De
GATE	Tor	Opérateur, porte
INTEGRATOR	Integrator	Intégrateur
... LOW PASS FILTER ... GAIN	... Tiefpaßfilter ... Verstärkung	... filtre passe-bas ... gain
RMS DETECTOR	Effektivwert-Gleichrichter	Redresseur valeur efficace
THRESHOLD COMPARATORS	Schwellenkomparator	Comparateur de seuil
1) SELECT AT TEST	1) Wählen bei Test	1) Sélectionné au test
x) ALIGNMENT VALUE	x) Abgleichwert	x) Valeur de réglage



35

Benennung:	
VCO	9202 - U
9202-7019.00/4	1

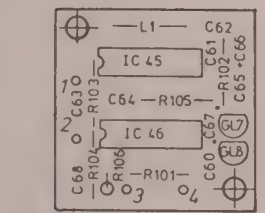
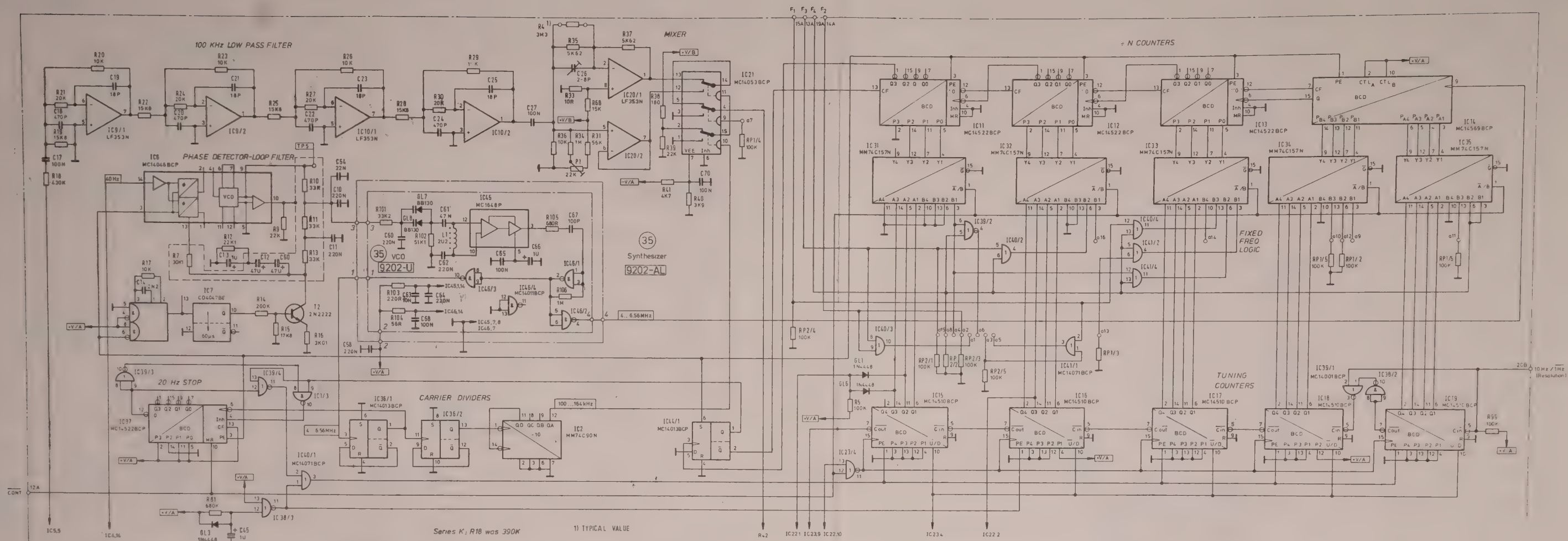


35

9202-AL

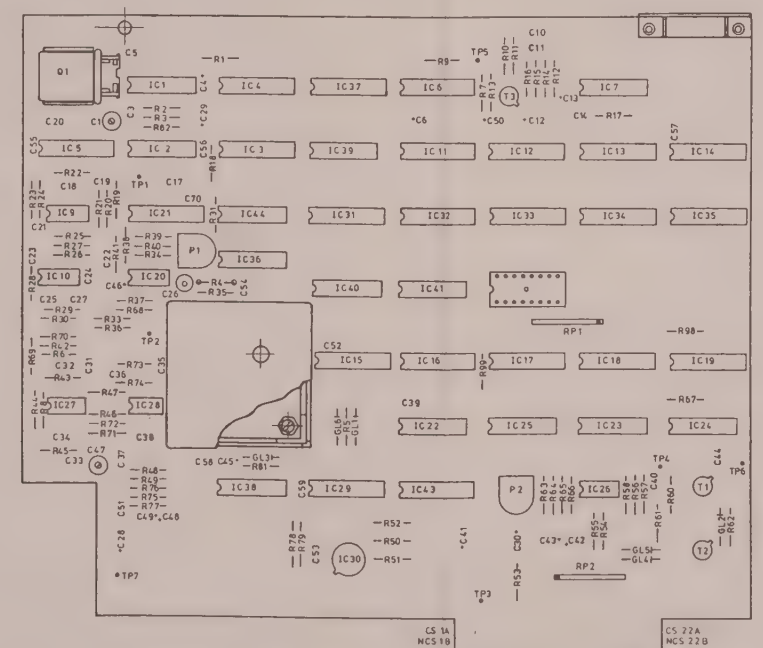
- 1) C70 incorporated into board series M...
- 2) C12, C50 to be glued at base for support

Benennung:	
Synthesizer	9202 - AL
9202-7035.00/3	3



35

Benennung	VCO	9202-U
	9202-7019.00/4	1



35

- 1) C70 incorporated into board series M...
- 2) C12, C50 to be glued at base for support

Benennung	Synthesizer	9202-AL
	9202-7035.00/3	3

Bestückungszeichnung 1 : 1 siehe Seite 21
Component drawings are 1 : 1, see Page 21
Disposition des composants en grandeur réelle, voir page 21

1	Pegelmeßgerät	BN 9202/03
1	AF Level Measuring Set	BN 9202/03
1	Appareil de mesure de niveau	BN 9202/03

WANDEL & GOLTERMANN, INC.

TRANSMISSION MEASURING SET

BILL OF MATERIAL

SERIES: M

PMG-3 9202/03

DIAG REF ITEM
XX XXX XX

DESCRIPTION

NOTES

SUBASSEMBLY

CODE

9202-XXXX

QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
0	9202-0000.00	INSTRUMENT COMPLETE	9202-8403.00	0000	S
1	9202-0100.00	INSTRUMENT ASSEMBLED		0000	A
4	9202-0010.00	CASE ASSEMBLED		0000	A
12	9202-0000.33	ESCUTCH FRONT MARKED		0000	A
13	9202-0000.21	ESCUTCH FRNT DRILLED		0000	M
14	XX05-0262.00	SCREW COV-PLT M2.5X4		0000	M
17	1 XX29-0083.00	Knob Rotary D16x4		0000	
18	1 XX29-0084.00	LID DD16 OKW4116008		0000	
20	1 XX29-0059.00	KNOB ROTARY D 13X6.3		0000	
21	1 XX29-0085.00	LID DD13 OKW 4113008		0000	
23	1 9202-0301.04	ESCUTCH REAR MARKED		0000	M
24	1 9202-0301.02	ESCUTCHN REAR MACH		0000	M
26	1 XX28-0160.00	CLAMP FOR HEX WRENCH		0000	
27	1 XX14-0065.00	WRENCH M3		0000	
35	4 XX05-2062.00	SCREW COV-PLT M2.5X4		0000	
38	1 XX01-0110.00	LINECORD GRY RTG ANG		0000	
45	3 XX04-0048.00	FUSE 0.25A SLO 3AG	220/240V SPARE	0000	
46	3 XX04-0047.00	FUSE 0.5A SLO 3AG	110/120V SPARE	0000	
47	1 XX14-0082.00	ENVEL COIN 2.5X4.5		0000	
50	1 9202-6300.01	SHIPPING CARTON		0000	
53	1 9202-8400.84	MANUAL DO PMG-3		0000	
55	0 9000-8401.00	SOFTPACK AT-052S S23	OPTION	0000	

DIAG REF ITEM
XX XXX XX

NOTES

DESCRIPTION

PART NUMBER

QTY

SUBASSEMBLY

9202-XXXX

CODE

0		0	9202-0010.00	CASE ASSEMBLED	0010	S
1		2	0700-3000.00	SIDE PANEL ASSY SZ3	0010	A
4		4	0700-0000.01	FOOT SIDE PANEL	0010	M
5		4	XX05-0367.00	STRAIGHT PIN 2.5X10	0010	
7		2	0900-3001.00	HOLDER SIZE 3 1/2-19	0010	
8		8	0700-0000.07	RIVET	0010	
10		1	0900-3010.00	HANDLE W/GRIP SIZE3	0010	
11		2	0900-4010.03	SCREW SHOULD F HANDL	0010	
15		1	0900-0110.00	TOP FINISH 1/2	0010	
16		2	0700-0100.01	GUIDE	0010	
17		2	XX05-0368.00	SCREW ALLEN M4X6	0010	
19		1	0900-0510.00	BOTTOM COVER	0010	
20		2	0700-0000.02	FEET RIGHT	0010	
21		2	0700-0000.03	FEET LEFT	0010	
22		4	XX28-0105.00	FOOT PLAS CLEAR 19"	0010	
23		1	0900-0000.01	BAIL LIFTER 1/2-19SZ	0010	
24		4	XX05-0372.00	SCREW ALLEN M4X12	0010	
27		12	XX05-0372.00	SCREW ALLEN M4X12	0010	

WANDEL & GOLTERMANN, INC.

TRANSMISSION MEASURING SET

BILL OF MATERIAL

SERIES: M

PMG-3 9202/03

DIAG REF ITEM
XX XXX XX

QTY PART NUMBER

DESCRIPTION

NOTES

SUBASSEMBLY

9202-XXXX

CODE

0	9202-0100.00	INSTRUMENT ASSEMBLED		0100	S
1	9202-0200.00	FRAME COMPLETE		0100	A
4	9202-0130.00	PANEL FRONT ASSEM		0100	A
5	XX05-0292.00	SCREW CRSL M4X10		0100	A
6	9202-0100.15	STRUT BOTTOM LEFT		0100	M
7	XX05-0321.00	SCREW CTSK CR M4X8		0100	
8	9202-0100.14	STRUT TOP LEFT		0100	M
9	XX05-0213.00	SCREW CYL CRSL M3X15		0100	
10	9202-0200.02	SHIELD		0100	M
11	XX05-0307.00	INSERT M 3 B		0100	
12	XX05-0215.00	SCREW CTSK CR M3X6		0100	
16	9202-0400.02	BRACKET BATTERY		0100	M
17	XX05-0354.00	INSERT M 4 B		0100	
18	XX05-0209.00	SPRING WASH M3		0100	
19	XX05-0205.00	WASH FLAT ST M4		0100	
20	9202-0400.01	CLAMP BATTERY		0100	M
21	XX05-0291.00	SCREW CYL SL M4X6		0100	
22	XX05-0200.00	SCREW CYL CRSL M3X5		0100	
27	XX05-0015.00	SCREW CYL SLST M4X8		0100	
28	XX05-0205.00	WASH FLAT ST M4		0100	
31	XX05-0216.00	SCREW CTSK CR M3X8		0100	
32	XX27-0009.00	LUG SOLDER		0100	
33	XX05-0274.00	WASH FLAT ST M3		0100	
34	XX05-0196.00	NUT HEX ST M3		0100	
36	9202-0301.00	PANEL REAR COMPLETE		0100	A
37	XX05-0321.00	SCREW CTSK CR M4X8		0100	
38	XX05-0292.00	SCREW CTSK CR M4X10		0100	
40	9202-7011.00	I/O BOARD ASSEMBLED	9202-M1	0100	A
42	9202-7012.00	FILTER BOARD ASSEM	9202-N	0100	A
44	9202-7013.00	AUTORANGE BD ASSEM	9202-0	0100	A
46	9202-7004.00	ARITHMETIC BD ASSEM	9202-E	0100	A
48	9202-7035.00	SYNTHESIZER BD ASSEM	9202-AL	0100	A
53	9202-0000.05	BAR HOLD DOWN		0100	M
54	XX05-0212.00	SCREW CYL CRSL M3X10		0100	
55	XX05-0202.00	SCREW CYL CRSL M3X12		0100	
57	9202-0003.01	STRUT		0100	M
58	XX05-0200.00	SCREW CYL CR M3X5		0100	

PMG-3 9202/03

BILL OF MATERIAL

SERIES: M

DIAG REF ITEM

XX XXX XX

QTY

PART NUMBER

DESCRIPTION

NOTES

SUBASSEMBLY

9202-XXXX

CODE

68 3 9000-0000.02
70 1 9202-8540.00
75 1 9202-8544.00
76 0 9202-8400.01
3 1 XX03-0338.00
7 BU 1 9202-7701.00
7 UE

LABEL SERIAL
PLUG PROGRAMMED PMG3
PLUG PROGR PMG-3
BATTERY ASSY OPT 01
CONN 3 PIN F W/CAP
TRANSFORMER POWER

ARITHM BD-7004
SYNTHES BD -7035
OPTION (9202-0400.00)
TRANSFORMER

M
M
M
M
M
M

0 0 9202-0130.00
1 1 9202-0100.20
4 1 9202-7016.00
5 4 XX05-0187.00
8 2 XX05-0221.00
9 1 9202-8521.00
10 1 9202-8522.00
15 2 XX27-0008.00
16 1 9202-8527.00
18 1 XX29-0081.00
19 1 XX29-0082.00
20 1 XX29-0092.00
11 BU 2 1 XX03-0349.00
11 BU 4 1 XX03-0348.00

PANEL FRONT ASSEM
PANEL FRONT DRILLED
DISPLAY BOARD ASSEM
SCREW CYL CRSL M3X6
SCREW CTSK SL M2X8
HF-CABLE
HF-CABLE
LUG SOLDER BENT #6
2 WIRE TWIST
KNOB ROT D16X6.3
KNOB ROTARY D10X3.2
LID DD 10.1 BLUE
CONN INSUL BLU S-663
CONN INSUL RED S-662

9202-R1

S
A
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A

A
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0130
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0130

DIAG REF ITEM

XX XXX XX

QTY

PART NUMBER

DESCRIPTION

NOTES

SUBASSEMBLY

9202-XXXX

CODE

0	0	9202-0200.00	FRAME COMPLETE		0200	S
1	1	9202-0201.01	CHASSIS MACHINED		0200	A
2	5	XX05-0345.00	INSERT M 4 B		0200	M
3	2	XX24-0067.00	STANDOFF PEM M3X3		0200	
8	1	9202-0100.12	STRUT BOTTOM RIGHT	SO-M3-3	0200	M
9	2	XX05-0014.00	SCREW CYL SL M4X12		0200	
12	1	9202-7008.00	MOTHER BOARD ASSEM	9202-J1	0200	A
13	6	XX05-0014.00	SCREW CYL SL M4X6		0200	
14	6	XX05-0205.00	WASHER FLAT M 4		0200	
17	1	9202-0100.11	STRUT TOP RIGHT		0200	M
20	1	9202-0100.13	STRUT TOP CROSS		0200	M
21	3	XX05-0188.00	SCREW CYL CRSL M3X8		0200	
22	1	XX05-0202.00	SCREW CYL CRSL M3X12		0200	

0	0	9202-0301.00	PANEL REAR COMPLETE		0301	S
1	1	9202-0301.01	PANEL REAR MACHINED		0301	A
19	3	XX30-0014.00	TIE CABLE 1.5MM		0301	M
43	2	XX23-0033.00	CLIP MTG CORC 6J4		0301	
52	1	9202-7007.00	POWER SUPPLY ASSEM	9202-H1	0301	A
53	6	XX05-0187.00	SCREW CYL CR M3X6		0301	
7	1	XX03-0049.00	TERMINAL S-652		0301	
7	1	XX15-0018.00	FILT VOLT/SW 6J4		0301	
7S	1	XX04-0047.00	FUSE 0.5A SLO 3AG	110/120 V	0301	

0	0	9202-0400.00	BATTERY PACK ASSEM		0400	S
1	2	9202-9301.01	BATTERY PACK 12V/2		0400	A
3	1	9202-8502.00	CABLE TREE #2		0400	A
9	1	9202-0400.05	INSULATOR 1		0400	M
10	1	9202-0400.06	INSULATOR 2		0400	M

DIAG XX	REF XXX	ITEM XX	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY 9202-XXXX	CODE
		0	0	9202-7004.00	ARITHMETIC BOARD		7004	S
		1	1	9202-7004.02	PC BD ARITH DRILLED		7004	A
		3	2	XX05-0021.00	RIVET F.HANDLE 2mm D		7004	
		4	1	XX21-0029.00	LABEL SIGNAL RED TRI		7004	
		5	1	9202-7004.03	HANDLE MARKED		7004	M
		8	1	XX34-0027.00	SOCKET IC 40 PIN DIP		7004	
		10	1	XX34-0033.00	SOCKET IC 16 PIN DIP		7004	
4	C	1	1	XX02-0270.00	CAP CER .01uF 50V		7004	
4	C	2	1	XX32-0007.00	CAP TANT 22uF 10%15V		7004	
4	C	3	1	XX02-0270.00	CAP CER .01uF 50V		7004	
4	C	8	1	XX02-0055.00	CAP CER 82pF+2% NPO		7004	
4	C	10	1	XX02-0270.00	CAP CER .01uF 50V		7004	
4	C	16	1	XX32-0092.00	C TANT 1.0uF 10%35V		7004	
4	C	17	1	XX02-0029.00	CAP CER .1uF 10% 50V		7004	
4	C	18	1	XX02-0051.00	CAP CER 22pF+2% NPO		7004	
4	C	21	1	XX02-0270.00	CAP CER .01uF 50V		7004	
4	C	32	1	XX02-0280.00	CAP CER .068uF 50V		7004	
4	C	43	1	XX32-0007.00	CAP TANT 22uF 10%15V		7004	
4	C	45	1	XX02-0047.00	CAP CER 10pF+2% NPO		7004	
4	GL	1	1	XX37-0201.00	ZENER LM329BZ		7004	
4	IC	1	1	XX35-0167.00	IC LM 339N		7004	
4	IC	2	1	XX35-0155.00	IC MC 14046CP		7004	
4	IC	3	1	XX35-0313.00	IC MM 74C90N		7004	
4	IC	4	1	XX35-0318.00	IC MC 14070 BCP		7004	
4	IC	6	1	XX35-0250.00	IC MC 14543BCP		7004	
4	IC	7	1	XX35-0250.00	IC MC 14543BCP		7004	
4	IC	8	1	XX35-0250.00	IC MC 14543BCP		7004	
4	IC	9	1	XX35-0330.00	IC ILC 8211 CPA		7004	
4	IC	10	1	XX35-0318.00	IC MC 14070 BCP		7004	
4	IC	11	1	XX35-0179.00	IC MC14049BCP		7004	
4	IC	12	1	XX35-0181.00	IC MC 14081BCP		7004	
4	IC	13	1	XX35-0256.00	IC MC 14560 BCP		7004	
4	IC	14	1	XX35-0256.00	IC MC 14560 BCP		7004	
4	IC	15	1	XX35-0256.00	IC MC 14560 BCP		7004	
4	IC	16	1	XX35-0331.00	IC ILC 8212 CPA		7004	
4	IC	17	1	XX35-0183.00	IC MC 14023BCP		7004	
4	IC	18	1	XX35-0179.00	IC MC14049BCP		7004	

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
4	IC	19	1	XX35-0182.00	IC MC 14013 BCP		9202-XXXX	7004
4	IC	20	1	XX35-0189.00	IC MC 14001BCP			7004
4	IC	21	1	XX35-0110.00	IC CD 4017-AE			7004
4	IC	22	1	XX35-0179.00	IC MC14049BCP			7004
4	IC	23	1	XX35-0319.00	IC MC 14561 BCP			7004
4	IC	24	1	XX35-0319.00	IC MC 14561 BCP			7004
4	IC	25	1	XX35-0319.00	IC MC 14561 BCP			7004
4	IC	26	1	XX35-0262.00	IC CD 4040AE			7004
4	IC	27	1	XX35-0123.00	IC CD 4012-AE			7004
4	IC	28	1	XX35-0111.00	IC CD 4024-AE			7004
4	IC	29	1	XX35-0181.00	IC MC 14081BCP			7004
4	IC	30	1	XX35-0338.00	IC MC 14027 BCP			7004
4	IC	31	1	XX35-0338.00	IC MC 14027 BCP			7004
4	IC	32	1	XX35-0320.00	IC MC 14025 BCP			7004
4	IC	33	1	XX35-0256.00	IC MC 14560 BCP			7004
4	IC	34	1	XX35-0256.00	IC MC 14560 BCP			7004
4	IC	35	1	XX35-0107.00	IC MC 14518 BCP			7004
4	IC	36	1	XX35-0182.00	IC MC 14013 BCP			7004
4	IC	37	1	XX35-0111.00	IC CD 4024-AE			7004
4	IC	38	1	XX35-0189.00	IC MC 14001BCP			7004
4	IC	39	1	XX35-0320.00	IC MC 14025 BCP			7004
4	IC	40	1	XX35-0189.00	IC MC 14001BCP			7004
4	IC	41	1	XX35-0318.00	IC MC 14070 BCP			7004
4	IC	43	1	XX35-0181.00	IC MC 14081BCP			7004
4	IC	44	1	XX35-0335.00	IC MC 14075			7004
4	IC	45	1	XX35-0309.00	IC MC 14174 BCP			7004
4	R	1	1	XX08-0179.00	CF 3.3K 1/4W 5%			7004
4	R	2	1	XX08-0246.00	CF 680K 1/4W 5%			7004
4	R	3	1	XX08-0196.00	CF 150K 1/4W 5%			7004
4	R	4	1	XX08-0216.00	CF 2.2K 1/4W 5%			7004
4	R	5	1	XX08-0216.00	CF 2.2K 1/4W 5%			7004
4	R	6	1	XX08-0185.00	CF 10K 1/4W 5%			7004
4	R	7	1	XX08-0016.00	CF 39K 1/4W 5%			7004
4	R	8	1	XX08-0250.00	CF 560 OHM 1/4W 5%			7004
4	R	9	1	XX08-0193.00	CF 82K 1/4W 5%			7004
4	R	10	1	XX08-0291.00	CF 6.8K 1/4W 5%			7004
4	R	11	1	XX08-0066.00	MF 46.4K 1/4W 1%			7004
4	R	12	1	XX08-0292.00	CF 1M OHM 1/4W 5%			7004

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

PMG-3 9202/03				***** BILL OF MATERIAL *****				***** SERIES: M *****				SUBASSEMBLY 9202-XXXX				CODE *****			
DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES													
4	R	13	1	XX08-0340.00	MF 100K 1/4W 1%														7004
4	R	14	1	XX08-0182.00	CF 4.7K 1/4W 5%														7004
4	R	15	1	XX08-0185.00	CF 10K 1/4W 5%														7004
4	R	17	1	XX08-0194.00	CF 100K 1/4W 5%														7004
4	R	18	1	XX08-0194.00	CF 100K 1/4W 5%														7004
4	R	19	1	XX08-0208.00	CF 390 OHM 1/4W 5%														7004
4	R	20	1	XX08-0194.00	CF 100K 1/4W 5%														7004
4	R	21	1	XX08-0194.00	CF 100K 1/4W 5%														7004
4	R	22	1	XX08-0056.00	MF 11K 1/4W 1%														7004
4	R	23	1	XX08-0340.00	MF 100K 1/4W 1%														7004
4	R	24	1	XX08-0483.00	CF 3.9M OHM 5% 1/4W														7004
4	R	25	1	XX08-0194.00	CF 100K 1/4W 5%														7004
4	R	26	1	XX08-0194.00	CF 100K 1/4W 5%														7004
4	R	27	1	XX08-0206.00	CF 470K 1/4W 5%														7004
4	R	28	1	XX08-0216.00	CF 2.2K 1/4W 5%														7004
4	R	29	1	XX08-0245.00	CF 15K 1/4W 5%														7004
4	R	30	1	XX08-0403.00	CF 330K 5% 1/4W														7004
4	T	1	1	XX10-0184.00	TRANSIST BCY 59D														7004

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX					9202-XXXX	

		0	0	9202-7016.00	DISPLAY BOARD			7006	S
		1	1	9202-7006.02	PC BD DISPLAY	ASSEMBLED 9202-R1		7006	A
		3	4	XX34-0028.00	SOCKET IC 20 PIN DIP	DRILLED, PCB REV 3		7006	
		14	1	0829-7036.06	FLYWHEEL			7006	
		16	3	XX05-0219.00	SCREW CTSK SL M2X5	GENERATOR		7006	
		17	1	XX05-0355.00	SCREW SET M 2.5X3mm			7006	
		21	1	XX21-0029.00	LABEL SIGNAL RED TRI			7006	
		32	1	9202-8524.00	CABLE RIBBON 40P			7006	A
		33	1	XX03-0399.00	CONN 26 PIN M HEADER	SPARE: XX03-0332.00		7006	
		35	1	9202-8531.00	CABLE 2 WIRE TWIST			7006	M
		40	1	9202-7006.03	LED HOLDER MODIFIED			7006	M
		45	4	XX24-0029.00	SPAC RIV-ON #3 8.5MM			7006	
		46	1	XX28-0170.00	BRAKE F.POT NYLON			7006	
6	C	1	1	XX02-0052.00	CAP CER 33pF+2% NPO			7006	
6	GL	5	1	XX37-0014.00	LEDGN HP5082-4984			7006	
6	IC	1	1	XX35-0332.00	IC ICM 7224 IPL			7006	
6	IC	11	1	XX37-0202.00	LCD HAM 3909-363-060	AFTER QC		7006	
6	IC	14	1	XX37-0202.00	LCD HAM 3909-363-060	AFTER QC		7006	
6	M	1	1	0829-7036.81	MOTOR ASSEMBLY	MOUNTED		7006	
6	R	1	1	XX08-0304.00	CF 4.7M 1/4W 5%			7006	
6	S	1	1	XX11-0068.00	SWITCH SL #2 6u PCMT			7006	
8	P	1	1	XX38-0139.00	DUAL A-B LKCC 99328	POT ALLEN-BRADLEY		7006	
8	P	2	1	XX38-0140.00	POT W/SW CTS TYPE TV			7006	

PMG-3 9202/03

DIAG XX	REF XX	ITEM XX	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY 9202-XXXX	CODE
7	IC	1	1	XX35-0002.00	IC MC 7815 CP +15V		7007	
7	IC	2	1	XX35-0003.00	IC MC7915-15V		7007	
7	IC	3	1	XX35-0326.00	IC LM 386 N		7007	
7	LSP	1	1	XX15-0097.00	SPEAKER 57mm 8OHM 25		7007	
7	R	1	1	XX08-0648.00	WW 68 OHM 1% 10W		7007	
7	R	2	1	XX08-0648.00	WW 68 OHM 1% 10W		7007	
7	R	3	1	XX08-0343.00	CF 430 OHM 1/4W 5%		7007	
7	R	4	1	XX08-0679.00	CF 120 OHM 5% 1/2W		7007	
7	R	5	1	XX08-0185.00	CF 10K 1/4W 5%		7007	
7	R	6	1	XX08-0201.00	CF 10 OHM 1/4W 5%		7007	
7	R	7	1	XX08-0011.00	CF 910 OHM 1/4W 5%		7007	
7	SI	2	1	XX04-0047.00	FUSE 0.5A SLO 3AG	110/120 V	7007	
7	SI	3	1	XX04-0047.00	FUSE 0.5A SLO 3AG	110/120 V	7007	
7	ST	3	1	XX03-0333.00	CONN 3 PIN M HEADER		7007	
7	ST	4	1	XX03-0334.00	CONN 6 PIN M HEADER		7007	
7	ST	6	1	XX03-0334.00	CONN 6 PIN M HEADER		7007	

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

SERIES: M

BILL OF MATERIAL

PMG-3 9202/03

DIAG XX	REF XXX	ITEM XX	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY 9202-XXX	CODE
		0	0	9202-7008.00	MOTHER BOARD		7008	S
		1	1	9202-7008.02	PC BD MOTHER	ASSEMBLED 9202-J1	7008	A
		2	3	XX27-0033.00	TERM SOLD WN34/5/8	DRILLED, PCB REV 7	7008	
		3	1	9202-8523.00	RIBBON CABLE 26 COND		7008	A
		9	2	9202-0100.07	SPACER SWITCH 60mmL		7008	M
		10	5	XX03-0337.00	CONN 44 PIN F PC MTG		7008	
		11	10	XX05-0430.00	RIVET 3.1X10.3MM		7008	
		12	10	XX05-0274.00	WASH FLAT ST M3		7008	
		21	1	9202-8501.00	CABLE TREE 1		7008	M
		23	2	9202-7008.03	GUIDE PC BOARD		7008	M
		24	4	XX05-0200.00	SCREW CYL CRSL M3X5		7008	
		25	4	XX05-0365.00	INSERT M3X6	FOR PCB GUIDE	7008	
		26	1	9202-8530.00	HF CABLE		7008	A
		27	1	9202-8532.00	HF-CABLE		7008	A
		34	5	XX30-0014.00	TIE CABLE 1.5mm		7008	
8	GL	1	1	XX37-0001.00	DIODE 1N4448		7008	
8	GL	2	1	XX37-0001.00	DIODE 1N4448		7008	
8	R	1	1	XX08-0216.00	CF 2.2K 1/4W 5%		7008	
8	R	2	1	XX08-0014.00	CF 8.2K 1/4W 5%		7008	
8	R	3	1	XX08-0182.00	CF 4.7K 1/4W 5%	0001-0006.997	7008	
8	S	1	1	9202-8003.00	SWITCH 4S		7008	

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

SERIES: M

BILL OF MATERIAL

PMG-3 9202/03

[illegible]

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

PMG-3 9202/03			***** BILL OF MATERIAL *****			SERIES: M		
DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX					9202-XXXX	*****
11	C	19	0	XX02-0000.00	CAP CER TEST SELECT	SELECT AT TEST	7011	*****
11	C	20	1	XX02-0051.00	CAP CER 22pF+2% NPO	TYPICAL VALUE	7011	*****
11	C	21	1	XX02-0271.00	CAP CER.0047uF10%50V	TYPICAL VALUE	7011	*****
11	C	23	1	XX02-0225.00	CAP CER .022uF 40V		7011	*****
11	C	26	1	XX02-0054.00	CAP CER 68pF+2% NPO		7011	*****
11	C	27	1	XX02-0259.00	CAP CER 820pF 63V		7011	*****
11	C	28	0	XX02-0000.00	CAP CER TEST SELECT	SELECT AT TEST	7011	*****
11	C	29	0	XX02-0000.00	CAP CER TEST SELECT	SELECT AT TEST	7011	*****
11	C	35	1	XX32-0007.00	CAP TANT 22uF 10%15V		7011	*****
11	C	36	1	XX32-0007.00	CAP TANT 22uF 10%15V		7011	*****
11	GL	3	1	XX37-0001.00	DIODE 1N4448		7011	*****
11	GL	4	1	XX37-0001.00	DIODE 1N4448		7011	*****
11	GL	5	1	XX37-0001.00	DIODE 1N4448		7011	*****
11	GL	6	1	XX37-0001.00	DIODE 1N4448		7011	*****
11	GL	8	1	XX37-0001.00	DIODE 1N4448		7011	*****
11	GL	9	1	XX37-0001.00	DIODE 1N4448		7011	*****
11	GL	11	1	XX37-0020.00	DIODE 1N4002 1A		7011	*****
11	GL	12	1	XX37-0020.00	DIODE 1N4002 1A		7011	*****
11	GL	13	1	XX37-0020.00	DIODE 1N4002 1A		7011	*****
11	GL	14	1	XX37-0020.00	DIODE 1N4002 1A		7011	*****
11	GL	21	1	XX37-0019.00	DIODE 1N5230B		7011	*****
11	GL	22	1	XX37-0060.00	ZENER ZPD12 12V		7011	*****
11	GL	23	1	XX37-0060.00	ZENER ZPD12 12V		7011	*****
11	GL	24	1	XX37-0200.00	DIODE 1N5236B		7011	*****
11	GL	25	1	XX37-0200.00	DIODE 1N5236B		7011	*****
11	IC	1	1	XX35-0316.00	IC HI-1-5043-5		7011	*****
11	IC	2	1	XX35-0303.00	IC LF 353N		7011	*****
11	IC	3	1	XX35-0303.00	IC LF 353N		7011	*****
11	IC	4	1	XX35-0259.00	IC LF 355BN		7011	*****
11	IC	5	1	XX35-0315.00	IC LM317 T		7011	*****
11	L	1	1	XX33-0133.00	COIL 120uH 1537-80		7011	*****
11	L	2	1	XX33-0122.00	COIL 150uH 5% 1537-8	TYPICAL VALUE	7011	*****
11	L	3	1	XX33-0127.00	COIL 560uH 5% 2500	TYPICAL VALUE	7011	*****
11	L	4	1	XX33-0101.00	COIL 1.0mH 10%		7011	*****
11	P	1	1	XX38-0138.00	TRIM 500 OHM .5W 25T		7011	*****
11	P	2	1	XX38-0144.00	TRIM 2K .5W 10% 25T		7011	*****
11	R	1	1	XX08-0694.00	MF 610 OHM 0.5% 4W	.8 SPACING	7011	*****
11	R	2	1	XX08-0695.00	MF 1245 OHM 0.5% 4W	.8 SPACING	7011	*****

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PMG-3 9202/03

SERIES: M

BILL OF MATERIAL

DIAG REF ITEM

XX XXX XX

QTY

PART NUMBER

DESCRIPTION

NOTES

SUBASSEMBLY

9202-XXXX

CODE

7011

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.8 SPACING

.8 SPACING

TYPICAL VALUE

RES 615 OHM .5% 4W

RES 1255 OHM .5% 4W

MF 200K 1% 1/4W

MF 200K 1% 1/4W

MF 2.67K 1/4W 1%

MF 619 OHM 1/4W 1%

CF 100K 1/4W 5%

MF 619 OHM 1/4W 1%

CF 22 OHM 1/4W 5%

MF 15K 1/4W 1%

MF 10K 1/4W 1%

MF 8.25K 1/4W 1%

MF 118K 1% 1/4W

CF 22 OHM 1/4W 5%

CF 100 OHM 1/4W 5%

CF 100 OHM 1/4W 5%

CF 12K 1/4W 5%

CF 12K 1/4W 5%

MF 82.5 OHM 1/4W 1%

MF 31.6 OHM 1/4W 1%

MF 332 OHM 1/4W 1%

MF 30.1K 1/4W 1%

MF 15K 1/4W 1%

0 OHM JUMPER BLACK

MF 3.92K 1/4W 1%

MF 23.7K 1/4W 1%

CF 100 OHM 1/4W 5%

CF 100 OHM 1/4W 5%

MF 13K 1/4W 1%

CF 27K 1/4W 5%

CF 27K 1/4W 5%

CF 27K 1/4W 5%

CF 27K 1/4W 5%

CF 7.5K 1/4W 5%

CF 4.7K 1/4W 5%

CF 100K 1/4W 5%

CF 330K 5% 1/4W

CF 220K 1/4W 5%

CF 220K 1/4W 5%

CF 220K 1/4W 5%

CF 220K 1/4W 5%

WANDEL & GOLTERMANN, INC.

TRANSMISSION MEASURING SET

SERIES: M

BILL OF MATERIAL

PMG-3 9202/03

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY
XX	XXX	XX					9202-XXXX
11	R	48	1	XX08-0190.00	CF 47K 1/4W 5%		7011
11	R	49	1	XX08-0190.00	CF 47K 1/4W 5%		7011
11	R	50	1	XX08-0004.00	CF 51 OHM 1/4W 5%		7011
11	R	51	1	XX08-0181.00	CF 3.9K 1/4W 5%		7011
11	R	52	1	XX08-0004.00	CF 51 OHM 1/4W 5%		7011
11	R	53	1	XX08-0213.00	CF 2.7K 1/4W 5%		7011
11	R	54	1	XX08-0295.00	CF 18K 1/4W 5%		7011
11	R	55	1	XX08-0206.00	CF 470K 1/4W 5%		7011
11	R	56	1	XX08-0403.00	CF 330K 5% 1/4W		7011
11	R	57	1	XX08-0070.00	MF 82.5K 1/4W 1%		7011
11	R	58	1	XX08-0298.00	MF 90.9K 1/4W 1%		7011
11	R	59	1	XX08-0328.00	MF 13K 1/4W 1%		7011
11	R	60	1	XX08-0242.00	CF 330 OHM 1/4W 5%		7011
11	R	61	1	XX08-0241.00	CF 220 OHM 1/4W 5%		7011
11	R	62	1	XX08-0372.00	CF 120K OHM 1/4W 5%		7011
11	R	63	1	XX08-0375.00	CF 5.6 OHM 1/4W 5%		7011
11	R	64	1	XX08-0262.00	MF 1.3K 1/4W 1%		7011
11	R	65	1	XX08-0036.00	MF 200 OHM 1/4W 1%		7011
11	R	66	1	XX08-0326.00	MF 6.19K 1/4W 1%		7011
11	R	70	1	XX08-0234.00	CF 22 OHM 1/4W 5%		7011
11	R	71	1	XX08-0234.00	CF 22 OHM 1/4W 5%		7011
11	S	1	1	XX11-0075.00	SWITCH PP 2PDT F2UEE		7011
11	S	2	1	9202-8001.00	SWITCH SS		7011
11	S	3	1	9202-8001.00	SWITCH SS		7011
11	S	4	1	9202-8005.00	SWITCH SS		7011
11	S	5	1	9202-8001.00	SWITCH SS		7011
11	T	1	1	XX10-0003.00	TRANSIST 2N2219		7011
11	T	2	1	XX10-0002.00	TRANSIST 2N2905		7011
11	T	3	1	XX10-0148.00	TRANSIST 2N4393		7011
11	T	4	1	XX10-0184.00	TRANSIST BCY 59D		7011
11	T	5	1	XX10-0184.00	TRANSIST BCY 59D		7011
11	T	6	1	XX10-0184.00	TRANSIST BCY 59D		7011
11	UE	1	1	9202-7706.00	TRANSFORMER AUDIO		7011
11	UE	2	1	9202-7707.00	TRANSFORMER AUDIO		7011

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

PMG-3 9202/03				***** BILL OF MATERIAL *****				***** SERIES: M *****				SUBASSEMBLY 9202-XXXX CODE *****			
DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	TYPICAL VALUE								
XX	XXX	XX													
12	R	23	1	XX08-0280.00	MF 21K 1/4W 1%									7012	
12	R	24	1	XX08-0280.00	MF 21K 1/4W 1%									7012	
12	R	25	1	XX08-0280.00	MF 21K 1/4W 1%									7012	
12	R	26	1	XX08-0669.00	MF 14.7K 1%1/4W 50PP									7012	
12	R	27	1	XX08-0669.00	MF 14.7K 1%1/4W 50PP									7012	
12	R	28	1	XX08-0056.00	MF 11K 1/4W 1%									7012	
12	R	29	1	XX08-0012.00	CF 390K 1/4W 5%									7012	
12	R	30	1	XX08-0069.00	MF 61.9K 1/4W 1%									7012	
12	R	31	1	XX08-0043.00	MF 392 OHM 1/4W 1%									7012	
12	R	32	1	XX08-0062.00	MF 31.6K 1/4W 1%									7012	
12	R	33	1	XX08-0331.00	MF 1.78K 1/4W 1%									7012	
12	R	34	1	XX08-0050.00	MF 1.1K 1/4W 1%									7012	
12	R	35	1	XX08-0671.00	MF 174K 1%1/4W 50PPM									7012	
12	R	36	1	XX08-0329.00	MF 8.25K 1/4W 1%									7012	
12	R	37	1	XX08-0641.00	MF 19.1K 1% 1/4W									7012	
12	R	38	1	XX08-0227.00	MF 4.75K 1/4W 1%									7012	
12	R	39	1	XX08-0321.00	MF 6.81K 1/4W 1%									7012	
12	R	40	1	XX08-0056.00	MF 11K 1/4W 1%									7012	
12	R	41	1	XX08-0348.00	MF 15K 1/4W 1%									7012	
12	R	42	1	XX08-0299.00	MF 3.01K 1/4W 1%									7012	
12	R	43	1	XX08-0288.00	MF 33.2K 1/4W 1%									7012	
12	R	44	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	45	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	46	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	47	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	48	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	49	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	50	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	51	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	52	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	53	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	54	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	55	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	56	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	57	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	58	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	59	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	
12	R	60	1	XX08-0234.00	CF 22 OHM 1/4W 5%									7012	

PMG-3 9202/03

***** BILL OF MATERIAL *****

SERIES: M

DIAG		REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX	XX						
13	C	18		1	XX32-0007.00	CAP TANT 22uF 10%15V		9202-XXXX	*****
13	C	19		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	20		1	XX02-0221.00	CAP CER 39pF 2% NPO		7013	*****
13	C	21		1	XX02-0223.00	CAP CER 120pF 2% NPO		7013	*****
13	C	22		1	XX32-0086.00	C TANT 6.8uF 10% 35V		7013	*****
13	C	23		1	XX32-0086.00	C TANT 6.8uF 10% 35V		7013	*****
13	C	25		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	32		1	XX32-0091.00	C TANT 3.3uF 10%35V		7013	*****
13	C	33		1	XX32-0091.00	C TANT 3.3uF 10%35V		7013	*****
13	C	34		1	XX32-0109.00	C TANT 4.7uF 10%35V		7013	*****
13	C	35		1	XX02-0273.00	CAP CER .0022uF10%50		7013	*****
13	C	36		1	XX02-0393.00	CAP MIC 680p 2% 300V		7013	*****
13	C	37		1	XX02-0054.00	CAP CER 68pF+2% NPO		7013	*****
13	C	38		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	39		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	40		1	XX32-0086.00	C TANT 6.8uF 10% 35V		7013	*****
13	C	41		1	XX32-0086.00	C TANT 6.8uF 10% 35V		7013	*****
13	C	42		1	XX02-0377.00	CAP CER .1u 20% 50V		7013	*****
13	C	43		1	XX02-0377.00	CAP CER .1u 20% 50V		7013	*****
13	C	44		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	45		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	46		1	XX02-0222.00	CAP CER 56pF 2% NPO		7013	*****
13	C	47		1	XX02-0295.00	CAP FOIL 1uF 5% 63V	NOT INST BEFORE CLEAN PCB	7013	*****
13	C	48		1	XX02-0029.00	CAP CER .1uF 10% 50V		7013	*****
13	C	49		1	XX02-0378.00	CAP CER .22u 20%50V		7013	*****
13	C	50		1	XX02-0265.00	CAP CER .0015uF10%50		7013	*****
13	C	51		1	XX32-0086.00	C TANT 6.8uF 10% 35V		7013	*****
13	C	52		1	XX32-0086.00	C TANT 6.8uF 10% 35V		7013	*****
13	C	55		1	XX02-0049.00	CAP CER 15pF+2% NPO	TYPICAL VALUE	7013	*****
13	C	56		1	XX02-0263.00	CAP CER .22uF 10%50V		7013	*****
13	C	57		1	XX02-0029.00	CAP CER .1uF 10% 50V		7013	*****
13	C	58		1	XX02-0051.00	CAP CER 22pF+2% NPO	TYPICAL VALUE	7013	*****
13	C	59		1	XX02-0029.00	CAP CER .1uF 10% 50V		7013	*****
13	C	60		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	61		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	62		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	63		1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	65		1	XX02-0053.00	CAP CER 47pF		7013	*****

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

PMG-3 9202/03			***** BILL OF MATERIAL *****			***** SERIES: M *****		
DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX					9202-XXXX	*****
13	C	66	1	XX02-0282.00	CAP CER.0082uF10%50V		7013	*****
13	C	67	1	XX32-0007.00	CAP TANT 22uF 10%15V		7013	*****
13	C	70	1	XX32-0107.00	C TANT .68uF 10% 35V		7013	*****
13	GL	1	1	XX37-0018.00	DIODE HP5082-2800		7013	*****
13	GL	2	1	XX37-0018.00	DIODE HP5082-2800		7013	*****
13	GL	3	1	XX37-0001.00	DIODE 1N4448		7013	*****
13	GL	4	1	XX37-0001.00	DIODE 1N4448		7013	*****
13	GL	5	1	XX37-0001.00	DIODE 1N4448		7013	*****
13	GL	6	1	XX37-0001.00	DIODE 1N4448		7013	*****
13	GL	7	1	XX37-0001.00	DIODE 1N4448		7013	*****
13	GL	8	1	XX37-0001.00	DIODE 1N4448		7013	*****
13	GL	9	1	XX37-0001.00	DIODE 1N4448		7013	*****
13	GL	10	1	XX37-0018.00	DIODE HP5082-2800		7013	*****
13	GL	11	1	XX37-0018.00	DIODE HP5082-2800		7013	*****
13	GL	21	1	XX37-0201.00	ZENER LM329BZ		7013	*****
13	IC	1	1	XX35-0258.00	IC HI-201-5		7013	*****
13	IC	2	1	XX35-0302.00	IC LF 357BN		7013	*****
13	IC	3	1	XX35-0230.00	IC HI2-200-5		7013	*****
13	IC	4	1	XX35-0302.00	IC LF 357BN		7013	*****
13	IC	5	1	XX35-0230.00	IC HI2-200-5		7013	*****
13	IC	6	1	XX35-0325.00	IC LF 356N		7013	*****
13	IC	7	1	XX35-0230.00	IC HI2-200-5		7013	*****
13	IC	8	1	XX35-0325.00	IC LF 356N		7013	*****
13	IC	9	1	XX35-0228.00	IC MC 14051 BCP		7013	*****
13	IC	10	1	XX35-0259.00	IC LF 355BN		7013	*****
13	IC	11	1	XX35-0228.00	IC MC 14051 BCP		7013	*****
13	IC	12	1	XX35-0303.00	IC LF 353N		7013	*****
13	IC	13	1	XX35-0325.00	IC LF 356N		7013	*****
13	IC	14	1	XX35-0314.00	IC LF 347N		7013	*****
13	IC	15	1	XX35-0258.00	IC HI-201-5		7013	*****
13	IC	16	1	XX35-0186.00	IC MC 14011BCP		7013	*****
13	IC	17	1	XX35-0259.00	IC LF 355BN		7013	*****
13	IC	18	1	XX35-0327.00	IC AD 536 AJH		7013	*****
13	IC	19	1	XX35-0167.00	IC LM 339N		7013	*****
13	IC	20	1	XX35-0259.00	IC LF 355BN		7013	*****
13	IC	21	1	XX35-0268.00	IC CA 3130		7013	*****
13	IC	22	1	XX35-0328.00	IC MC 14538 BCP		7013	*****
13	IC	23	1	XX35-0278.00	IC MC 14510 BCP		7013	*****

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DIAG		REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	
XX	XXX	XX	XX					9202-XXXX	CODE
13	IC	24	1	XX35-0278.00	IC MC 14510 BCP			7013	*****
13	IC	25	1	XX35-0186.00	IC MC 1401BCP			7013	*****
13	IC	26	1	XX35-0179.00	IC MC14049BCP			7013	*****
13	IC	27	1	XX35-0189.00	IC MC 14001BCP			7013	*****
13	IC	28	1	XX35-0189.00	IC MC 14001BCP			7013	*****
13	IC	29	1	XX35-0303.00	IC LF 353N			7013	*****
13	IC	30	1	XX35-0316.00	IC HI-1-5043-5			7013	*****
13	IC	31	1	XX35-0230.00	IC HI2-200-5			7013	*****
13	IC	32	1	XX35-0259.00	IC LF 355BN			7013	*****
13	P	3	1	XX38-0079.00	TRIM 100OHM .5W10%25			7013	*****
13	P	33	1	XX38-0137.00	TRIM 2K .5W 25T			7013	*****
13	P	91	1	XX38-0115.00	TRIM 25K 10% .5W 25T			7013	*****
13	P	95	1	XX38-0078.00	TRIM 5K .5W 10% 25T			7013	*****
13	P	104	1	XX38-0138.00	TRIM 500 OHM .5W 25T			7013	*****
13	P	107	1	XX38-0018.00	TRIM 10K .5W 10% 25T			7013	*****
13	R	1	1	XX08-0624.00	MF 9.09K .1% 1/4W			7013	*****
13	R	2	1	XX08-0131.00	MF 332 OHM 1/4W 1%			7013	*****
13	R	4	1	XX08-0623.00	MF 121 OHM 1% 1/4W			7013	*****
13	R	5	1	XX08-0624.00	MF 9.09K .1% 1/4W			7013	*****
13	R	6	1	XX08-0625.00	MF 1.01K .1% 1/4W			7013	*****
13	R	7	1	XX08-0292.00	CF 1M OHM 1/4W 5%			7013	*****
13	R	8	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013	*****
13	R	9	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013	*****
13	R	10	1	XX08-0055.00	MF 9.09K 1/4W 1%			7013	*****
13	R	11	1	XX08-0225.00	MF 1K 1/4W 1%			7013	*****
13	R	12	1	XX08-0624.00	MF 9.09K .1% 1/4W			7013	*****
13	R	13	1	XX08-0625.00	MF 1.01K .1% 1/4W			7013	*****
13	R	14	1	XX08-0292.00	CF 1M OHM 1/4W 5%			7013	*****
13	R	15	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013	*****
13	R	16	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013	*****
13	R	17	1	XX08-0055.00	MF 9.09K 1/4W 1%			7013	*****
13	R	18	1	XX08-0225.00	MF 1K 1/4W 1%			7013	*****
13	R	19	1	XX08-0624.00	MF 9.09K .1% 1/4W			7013	*****
13	R	20	1	XX08-0625.00	MF 1.01K .1% 1/4W			7013	*****
13	R	21	1	XX08-0292.00	CF 1M OHM 1/4W 5%			7013	*****
13	R	22	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013	*****
13	R	23	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013	*****
13	R	24	1	XX08-0311.00	MF 10K 1/4W 1%			7013	*****

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

PMG-3 9202/03 9202/03 ***** BILL OF MATERIAL ***** SERIES: M

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
13	R	25	1	XX08-0324.00	MF 4.64K 1/4W 1%		9202-XXXX	*****
13	R	26	1	XX08-0626.00	MF 10.4K .1% 1/4W			7013
13	R	27	1	XX08-0627.00	MF 4.81K .1% 1/4W			7013
13	R	28	1	XX08-0507.00	CF 10M OHM 5% 1/4W			7013
13	R	29	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013
13	R	30	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013
13	R	31	1	XX08-0311.00	MF 10K 1/4W 1%			7013
13	R	32	1	XX08-0327.00	MF 4.32K 1/4W 1%			7013
13	R	34	1	XX08-0628.00	MF 3.92K .1% 1/4W			7013
13	R	35	1	XX08-0629.00	MF 2.46K .1% 1/4W			7013
13	R	36	1	XX08-0630.00	MF 4.22K .1% 1/4W			7013
13	R	37	1	XX08-0507.00	CF 10M OHM 5% 1/4W			7013
13	R	38	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013
13	R	39	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013
13	R	40	1	XX08-0050.00	MF 1.1K 1/4W 1%			7013
13	R	41	1	XX08-0529.00	MF 976 OHM 1% 1/4W			7013
13	R	42	1	XX08-0631.00	MF 876 OHM .1% 1/4W			7013
13	R	43	1	XX08-0507.00	CF 10M OHM 5% 1/4W			7013
13	R	44	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013
13	R	45	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013
13	R	46	1	XX08-0055.00	MF 9.09K 1/4W 1%			7013
13	R	47	1	XX08-0356.00	MF 2.21K 1/4W 1%			7013
13	R	48	1	XX08-0297.00	MF 5.62K 1/4W 1%			7013
13	R	49	1	XX08-0332.00	MF 17.8K 1/4W 1%			7013
13	R	50	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7013
13	R	51	1	XX08-0320.00	MF 2.37K 1/4W 1%			7013
13	R	52	1	XX08-0356.00	MF 2.21K 1/4W 1%			7013
13	R	53	1	XX08-0320.00	MF 2.37K 1/4W 1%			7013
13	R	54	1	XX08-0356.00	MF 2.21K 1/4W 1%			7013
13	R	55	1	XX08-0338.00	MF 22.1K 1/4W 1%			7013
13	R	56	1	XX08-0045.00	MF 511 OHM 1/4W 1%			7013
13	R	58	1	XX08-0187.00	CF 22K 1/4W 5%			7013
13	R	60	1	XX08-0338.00	MF 22.1K 1/4W 1%			7013
13	R	61	1	XX08-0338.00	MF 22.1K 1/4W 1%			7013
13	R	63	1	XX08-0056.00	MF 11K 1/4W 1%			7013
13	R	64	1	XX08-0612.00	0 OHM JUMPER BLACK			7013
13	R	65	0	XX08-0000.00	CF RESIS TEST SELECT			7013
13	R	70	1	XX08-0622.00	MF 25.5K 1% 1/4W			7013

TYPICAL VALUE

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX					9202-XXXX	*****
13	R	71	1	XX08-0311.00	MF 10K 1/4W 1%		7013	
13	R	72	1	XX08-0067.00	MF 51.1K 1/4W 1%		7013	
13	R	73	1	XX08-0225.00	MF 1K 1/4W 1%		7013	
13	R	74	1	XX08-0622.00	MF 25.5K 1% 1/4W		7013	
13	R	75	1	XX08-0633.00	MF 150K .1% 1/4W		7013	
13	R	76	1	XX08-0634.00	MF 34.4K .1% 1/4W		7013	
13	R	77	1	XX08-0635.00	MF 14.7K .1% 1/4W		7013	
13	R	78	1	XX08-0636.00	MF 28.4K .1% 1/4W		7013	
13	R	79	1	XX08-0637.00	MF 4.02K .1% 1/4W		7013	
13	R	80	1	XX08-0185.00	CF 10K 1/4W 5%		7013	
13	R	81	1	XX08-0638.00	MF 750K .1% 1/4W		7013	
13	R	82	1	XX08-0185.00	CF 10K 1/4W 5%		7013	
13	R	83	1	XX08-0639.00	MF 100K .1% 1/4W		7013	
13	R	84	1	XX08-0329.00	MF 8.25K 1/4W 1%		7013	
13	R	85	1	XX08-0306.00	MF 28K 1/4W 1%		7013	
13	R	86	1	XX08-0509.00	MF 10.7K 1% 1/4W		7013	
13	R	87	1	XX08-0329.00	MF 8.25K 1/4W 1%		7013	
13	R	88	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	
13	R	89	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	
13	R	92	1	XX08-0304.00	CF 4.7M 1/4W 5%		7013	
13	R	94	1	XX08-0327.00	MF 4.32K 1/4W 1%		7013	
13	R	96	1	XX08-0054.00	MF 7.5K 1/4W 1%		7013	
13	R	97	1	XX08-0337.00	MF 20K 1/4W 1%		7013	
13	R	98	1	XX08-0365.00	MF 4.99K 1/4W 1%		7013	
13	R	99	1	XX08-0179.00	CF 3.3K 1/4W 5%		7013	
13	R	100	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	
13	R	101	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	
13	R	102	1	XX08-0179.00	CF 3.3K 1/4W 5%		7013	
13	R	103	1	XX08-0056.00	MF 11K 1/4W 1%		7013	
13	R	105	1	XX08-0356.00	MF 2.21K 1/4W 1%		7013	
13	R	106	1	XX08-0070.00	MF 82.5K 1/4W 1%		7013	
13	R	108	1	XX08-0340.00	MF 100K 1/4W 1%		7013	
13	R	109	1	XX08-0018.00	CF 51K 1/4W 5%		7013	
13	R	110	1	XX08-0190.00	CF 47K 1/4W 5%		7013	
13	R	111	1	XX08-0215.00	CF 150 OHM 1/4W 5%		7013	
13	R	112	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	
13	R	113	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	
13	R	114	1	XX08-0194.00	CF 100K 1/4W 5%		7013	

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

PMG-3 9202/03			***** BILL OF MATERIAL *****			***** SERIES: M *****		
DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX					9202-XXXX	*****
13	R	116	1	XX08-0622.00	MF 25.5K 1% 1/4W		7013	*****
13	R	117	1	XX08-0622.00	MF 25.5K 1% 1/4W		7013	*****
13	R	118	1	XX08-0563.00	MF 7.15K .1% 1/4W		7013	*****
13	R	119	1	XX08-0179.00	CF 3.3K 1/4W 5%		7013	*****
13	R	120	1	XX08-0292.00	CF 1M OHM 1/4W 5%		7013	*****
13	R	121	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	*****
13	R	122	1	XX08-0172.00	CF 100 OHM 1/4W 5%		7013	*****
13	R	133	1	XX08-0173.00	CF 270 OHM 1/4W 5%		7013	*****
13	R	134	1	XX08-0336.00	MF 2.67K 1/4W 1%		7013	*****
13	R	135	1	XX08-0360.00	MF 2K 1/4W 1%		7013	*****
13	R	136	1	XX08-0194.00	CF 100K 1/4W 5%		7013	*****
13	R	137	1	XX08-0194.00	CF 100K 1/4W 5%		7013	*****
13	R	138	1	XX08-0194.00	CF 100K 1/4W 5%		7013	*****
13	R	139	1	XX08-0055.00	MF 9.09K 1/4W 1%		7013	*****
13	R	140	1	XX08-0225.00	MF 1K 1/4W 1%		7013	*****
13	R	141	1	XX08-0059.00	MF 23.7K 1/4W 1%		7013	*****
13	R	142	1	XX08-0058.00	MF 15.8K 1/4W 1%		7013	*****
13	R	143	1	XX08-0047.00	MF 681 OHM 1/4W 1%		7013	*****
13	R	144	1	XX08-0180.00	CF 5.6K 1/4W 5%		7013	*****
13	R	145	1	XX08-0182.00	CF 4.7K 1/4W 5%		7013	*****
13	R	147	1	XX08-0666.00	MF 158K 1% 1/4W		7013	*****
13	R	148	1	XX08-0338.00	MF 22.1K 1/4W 1%		7013	*****
13	R	149	1	XX08-0671.00	MF 174K 1%1/4W 50PPM		7013	*****
13	R	150	1	XX08-0193.00	CF 82K 1/4W 5%		7013	*****
13	R	151	1	XX08-0036.00	MF 200 OHM 1/4W 1%		7013	*****
13	R	152	1	XX08-0308.00	MF 32.4K 1/4W 1%		7013	*****
13	R	153	1	XX08-0308.00	MF 32.4K 1/4W 1%		7013	*****
13	R	154	1	XX08-0338.00	MF 22.1K 1/4W 1%		7013	*****
13	R	155	1	XX08-0211.00	CF 270K 1/4W 5%		7013	*****
13	R	156	1	XX08-0061.00	MF 30.1K 1/4W 1%		7013	*****
13	R	157	1	XX08-0050.00	MF 1.1K 1/4W 1%		7013	*****
13	R	158	1	XX08-0316.00	MF 200K 1% 1/4W		7013	*****
13	R	159	1	XX08-0242.00	CF 330 OHM 1/4W 5%		7013	*****
13	S	1	1	9202-8003.00	SWITCH 4S		7013	*****
13	S	5	1	9202-8004.00	SWITCH 1S		7013	*****
						TYPICAL VALUE		
						TYPICAL VALUE		

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SERIES	CODE
35	C	0	0	9202-7019.00	VCO-BOARD	ASSEMBLED 9202-U	7019	S
35	C	1	1	9202-7019.02	PC BOARD DRILLED	PCB REV 1	7019	A
35	C	5	4	XX03-0202.00	RECEP AMP 380-598-1		7019	
35	C	60	1	XX02-0263.00	CAP CER .22uF 10%50V		7019	
35	C	61	1	XX02-0262.00	CAP CER .047uF 50V		7019	
35	C	62	1	XX02-0263.00	CAP CER .22uF 10%50V		7019	
35	C	63	1	XX02-0270.00	CAP CER .01uF 50V		7019	
35	C	64	1	XX02-0263.00	CAP CER .22uF 10%50V		7019	
35	C	65	1	XX02-0029.00	CAP CER .1uF 10% 50V		7019	
35	C	66	1	XX32-0092.00	C TANT 1.0uF 10%35V		7019	
35	C	67	1	XX02-0010.00	CAP CER 100pF 2% NPO		7019	
35	C	68	1	XX02-0029.00	CAP CER .1uF 10% 50V		7019	
35	GL	7	1	XX37-0226.00	DIODE BB 130		7019	
35	GL	8	1	XX37-0226.00	DIODE BB 130		7019	
35	IC	45	1	XX35-0410.00	IC MC 1648A VCO		7019	
35	IC	46	1	XX35-0186.00	IC MC 14011BCP		7019	
35	L	1	1	XX33-0011.00	COIL 2.2uH 1537-02		7019	
35	R	101	1	XX08-0288.00	MF 33.2K 1/4W 1%		7019	
35	R	102	1	XX08-0067.00	MF 51.1K 1/4W 1%		7019	
35	R	103	1	XX08-0241.00	CF 220 OHM 1/4W 5%		7019	
35	R	104	1	XX08-0239.00	CF 56 OHM 1/4W 5%		7019	
35	R	105	1	XX08-0008.00	CF 680 OHM 1/4W 5%		7019	
35	R	106	1	XX08-0292.00	CF 1M OHM 1/4W 5%		7019	

PMG-3 9202/03

***** BILL OF MATERIAL *****

SERIES: M

DIAG REF ITEM
XX XX XX

QTY PART NUMBER

DESCRIPTION

NOTES

SUBASSEMBLY

9202-XXXX

CODE

0 0 9202-7035.00

SYNTHESIZER BOARD

9202-AL

7035

S

1 1 9202-7035.02

PC BOARD DRILLED

PCB REV 2

7035

A

3 2 XX05-0021.00

RIVET F.HANDLE 2mm D

7035

5 2 XX27-0033.00

TERM SOLD WN34/5/8

7035

6 1 XX21-0029.00

LABEL SIGNAL RED TRI

7035

7 1 9202-7035.06

HANDLE MARKD 9202-AL

M

11 1 XX34-0029.00

HOLDER CRYSTAL ASM

7035

12 4 XX03-0282.00

PIN NO 14.5 L=11.3MM

7035

15 7 XX03-0274.00

RIVET TESTPOINT

7035

16 1 XX14-0070.00

HEATSINK THERM 2257-

7035

17 1 XX34-0033.00

SOCKET IC 16 PIN DIP

M

20 1 9202-7035.03

CAN 1X1

7035

21 2 XX05-0200.00

SCREW CYL CRSL M3X5

7035

23 2 XX05-0307.00

INSERT M 3 B

7035

25 1 9202-7019.00

VCO BOARD, ASSEMBLED

INSTALL IN CAN

A

26 2 0855-0000.04

LOCK BOLT K2

7035

27 1 9202-7035.04

COVER, MARKED

2 PIECES; R4

M

30 3 XX34-0025.00

SOCK TERM CARRIER

7035

35 C 1 XX02-0202.00

CAP CER HORIZ 3.5-10

7035

35 C 3 XX02-0057.00

CAP CER 8.2pF+.25NPO

7035

35 C 4 XX32-0086.00

C TANT 6.8uF 10% 35V

7035

35 C 5 XX02-0053.00

CAP CER 47pF+2% NPO

7035

35 C 6 XX32-0007.00

CAP TANT 22uF 10%15V

7035

35 C 10 XX02-0263.00

CAP CER .22uF 10%50V

7035

35 C 11 XX02-0263.00

CAP CER .22uF 10%50V

7035

35 C 12 XX32-0065.00

C SOLTANT 47uF 35V

KEMET ONLY

7035

35 C 13 XX32-0092.00

C TANT 1.0uF 10%35V

7035

35 C 14 XX02-0273.00

CAP CER .0022uF10%50

CHECK SPACING

7035

35 C 17 XX02-0029.00

CAP CER .1uF 10% 50V

ARCO 2%

7035

35 C 18 XX02-0413.00

CAP MICA 470pF2%300V

7035

35 C 19 XX02-0050.00

CAP CER 18pF+2% NPO

7035

35 C 20 XX02-0413.00

CAP MICA 470pF2%300V

7035

35 C 21 XX02-0050.00

CAP CER 18pF+2% NPO

ARCO 2%

7035

35 C 22 XX02-0413.00

CAP MICA 470pF2%300V

7035

35 C 23 XX02-0050.00

CAP CER 18pF+2% NPO

7035

35 C 24 XX02-0413.00

CAP MICA 470pF2%300V

ARCO 2%

7035

35 C 25 XX02-0050.00

CAP CER 18pF+2% NPO

7035

DIAG REF ITEM

XX	XXX	XX	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
35	C	26	1	XX02-0405.00	CAP TRIM 2.5-10P	9622	9202-XXXX	*****
35	C	27	1	XX02-0029.00	CAP CER .1uF 10% 50V	CHECK SPACING	7035	*****
35	C	28	1	XX32-0007.00	CAP TANT 22uF 10%15V		7035	*****
35	C	29	1	XX32-0086.00	C TANT 6.8uF 10% 35V		7035	*****
35	C	30	1	XX32-0086.00	C TANT 6.8uF 10% 35V		7035	*****
35	C	31	1	XX02-0389.00	CAP MIC 240p 2% 100V	ARCO 2%	7035	*****
35	C	32	1	XX02-0394.00	CAP MIC 820p 2% 300V	ARCO 2%	7035	*****
35	C	33	1	XX02-0220.00	CAP CER 27pF 2% NPO		7035	*****
35	C	34	1	XX02-0373.00	CAP MIC 1200p 2%300V	ARCO 2%	7035	*****
35	C	35	1	XX02-0412.00	CAP MICA 430pF2%300V	ARCO 2%	7035	*****
35	C	36	1	XX02-0393.00	CAP MIC 680p 2% 300V	ARCO 2%	7035	*****
35	C	37	1	XX02-0406.00	CAP MIC 620pF 2% 300	ARCO 2%	7035	*****
35	C	38	1	XX02-0393.00	CAP MIC 680p 2% 300V	ARCO 2%	7035	*****
35	C	39	1	XX02-0010.00	CAP CER 100pF 2% NPO		7035	*****
35	C	40	1	XX02-0285.00	CAP CER .0015uF10%50		7035	*****
35	C	41	1	XX32-0086.00	C TANT 6.8uF 10% 35V		7035	*****
35	C	42	1	XX32-0007.00	CAP TANT 22uF 10%15V		7035	*****
35	C	43	1	XX32-0007.00	CAP TANT 22uF 10%15V		7035	*****
35	C	44	1	XX02-0255.00	CAP CER .022uF10%50V		7035	*****
35	C	45	1	XX32-0092.00	C TANT 1.0uF 10%35V		7035	*****
35	C	46	1	XX32-0086.00	C TANT 6.8uF 10% 35V		7035	*****
35	C	47	1	XX02-0202.00	CAP CER HORIZ 3.5-10		7035	*****
35	C	48	1	XX32-0007.00	CAP TANT 22uF 10%15V		7035	*****
35	C	49	1	XX32-0007.00	CAP TANT 22uF 10%15V		7035	*****
35	C	50	1	XX32-0065.00	C SOLTANT 47uF 35V	KEMET ONLY	7035	*****
35	C	51	1	XX02-0271.00	CAP CER.0047uF10%50V		7035	*****
35	C	52	1	XX02-0263.00	CAP CER .22uF 10%50V		7035	*****
35	C	53	1	XX02-0029.00	CAP CER .1uF 10% 50V	CHECK SPACING	7035	*****
35	C	54	1	XX02-0255.00	CAP CER .022uF10%50V		7035	*****
35	C	55	1	XX02-0263.00	CAP CER .22uF 10%50V		7035	*****
35	C	56	1	XX02-0263.00	CAP CER .22uF 10%50V		7035	*****
35	C	57	1	XX02-0263.00	CAP CER .22uF 10%50V		7035	*****
35	C	58	1	XX02-0263.00	CAP CER .22uF 10%50V		7035	*****
35	C	59	1	XX02-0263.00	CAP CER .22uF 10%50V		7035	*****
35	C	70	1	XX02-0029.00	CAP CER .1uF 10% 50V	ACROSS R40 SERIES L ONLY	7035	*****
35	GL	1	1	XX37-0001.00	DIODE 1N4448		7035	*****
35	GL	2	1	XX37-0001.00	DIODE 1N4448		7035	*****
35	GL	3	1	XX37-0001.00	DIODE 1N4448		7035	*****

WANDEL & GOLTERMANN, INC.

TRANSMISSION MEASURING SET

SERIES: M

BILL OF MATERIAL

PMG-3 9202/03

DIAG XX	REF XXX	ITEM XX	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	
							9202-XXX	CODE
35	GL	4	1	XX37-0152.00	ZENER ZPD3.3V+5%	*****	7035	*****
35	GL	5	1	XX37-0152.00	ZENER ZPD3.3V+5%	*****	7035	*****
35	GL	6	1	XX37-0001.00	DIODE 1N4448	*****	7035	*****
35	IC	1	1	XX35-0186.00	IC MC 14011BCP	*****	7035	*****
35	IC	2	1	XX35-0313.00	IC MM 74C90N	*****	7035	*****
35	IC	3	1	XX35-0323.00	IC MC 14569 BCP	*****	7035	*****
35	IC	4	1	XX35-0107.00	IC MC 14518 BCP	*****	7035	*****
35	IC	5	1	XX35-0428.00	IC MC 14018BCP	*****	7035	*****
35	IC	6	1	XX35-0155.00	IC MC 14046CP	*****	7035	*****
35	IC	7	1	XX35-0249.00	IC CD 4047BE	*****	7035	*****
35	IC	9	1	XX35-0303.00	IC LF 353N	*****	7035	*****
35	IC	10	1	XX35-0303.00	IC LF 353N	*****	7035	*****
35	IC	11	1	XX35-0322.00	IC MC 14522 BCP	*****	7035	*****
35	IC	12	1	XX35-0322.00	IC MC 14522 BCP	*****	7035	*****
35	IC	13	1	XX35-0322.00	IC MC 14522 BCP	*****	7035	*****
35	IC	14	1	XX35-0323.00	IC MC 14569 BCP	*****	7035	*****
35	IC	15	1	XX35-0278.00	IC MC 14510 BCP	*****	7035	*****
35	IC	16	1	XX35-0278.00	IC MC 14510 BCP	*****	7035	*****
35	IC	17	1	XX35-0278.00	IC MC 14510 BCP	*****	7035	*****
35	IC	18	1	XX35-0278.00	IC MC 14510 BCP	*****	7035	*****
35	IC	19	1	XX35-0278.00	IC MC 14510 BCP	*****	7035	*****
35	IC	20	1	XX35-0303.00	IC LF 353N	*****	7035	*****
35	IC	21	1	XX35-0324.00	IC MC 14053 BCP	*****	7035	*****
35	IC	22	1	XX35-0183.00	IC MC 14023BCP	*****	7035	*****
35	IC	23	1	XX35-0189.00	IC MC 14001BCP	*****	7035	*****
35	IC	24	1	XX35-0186.00	IC MC 14011BCP	*****	7035	*****
35	IC	25	1	XX35-0182.00	IC MC 14013 BCP	*****	7035	*****
35	IC	26	1	XX35-0325.00	IC LF 356N	*****	7035	*****
35	IC	27	1	XX35-0303.00	IC LF 353N	*****	7035	*****
35	IC	28	1	XX35-0303.00	IC LF 353N	*****	7035	*****
35	IC	29	1	XX35-0107.00	IC MC 14518 BCP	*****	7035	*****
35	IC	30	1	XX35-0429.00	IC LM 317H	*****	7035	*****
35	IC	31	1	XX35-0426.00	IC MM 74C157N	*****	7035	*****
35	IC	32	1	XX35-0426.00	IC MM 74C157N	*****	7035	*****
35	IC	33	1	XX35-0426.00	IC MM 74C157N	*****	7035	*****
35	IC	34	1	XX35-0426.00	IC MM 74C157N	*****	7035	*****
35	IC	35	1	XX35-0426.00	IC MM 74C157N	*****	7035	*****
35	IC	36	1	XX35-0182.00	IC MC 14013 BCP	*****	7035	*****

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
35	IC	37	1	XX35-0322.00	IC MC 14522 BCP		9202-XXXX	7035
35	IC	38	1	XX35-0186.00	IC MC 14011BCP			7035
35	IC	39	1	XX35-0189.00	IC MC 14001BCP			7035
35	IC	40	1	XX35-0059.00	IC MC 14071BCP			7035
35	IC	41	1	XX35-0059.00	IC MC 14071BCP			7035
35	IC	43	1	XX35-0323.00	IC MC 14569 BCP			7035
35	IC	44	1	XX35-0182.00	IC MC 14013 BCP			7035
35	P	1	1	XX38-0089.00	TRIM LIN 22K .5W WGR			7035
35	P	2	1	XX38-0089.00	TRIM LIN 22K .5W WGR			7035
35	Q	1	1	9202-9701.00	CRYSTAL 1 MHZ			7035
35	R	1	1	XX08-0239.00	CF 56 OHM 1/4W 5%			7035
35	R	2	1	XX08-0377.00	CF 3.3M OHM 1/4W 5%			7035
35	R	3	1	XX08-0216.00	CF 2.2K 1/4W 5%			7035
35	R	4	1	XX08-0377.00	CF 3.3M OHM 1/4W 5%			7035
35	R	5	1	XX08-0194.00	CF 100K 1/4W 5%			7035
35	R	6	1	XX08-0324.00	MF 4.64K 1/4W 1%			7035
35	R	7	1	XX08-0061.00	MF 30.1K 1/4W 1%			7035
35	R	8	1	XX08-0667.00	MF 18.7K 1%1/4W 50PP			7035
35	R	9	1	XX08-0187.00	CF 22K 1/4W 5%			7035
35	R	10	1	XX08-0249.00	CF 33K 1/4W 5%			7035
35	R	11	1	XX08-0249.00	CF 33K 1/4W 5%			7035
35	R	12	1	XX08-0338.00	MF 22.1K 1/4W 1%			7035
35	R	13	1	XX08-0249.00	CF 33K 1/4W 5%			7035
35	R	14	1	XX08-0316.00	MF 200K 1% 1/4W			7035
35	R	15	1	XX08-0332.00	MF 17.8K 1/4W 1%			7035
35	R	16	1	XX08-0299.00	MF 3.01K 1/4W 1%			7035
35	R	17	1	XX08-0185.00	CF 10K 1/4W 5%			7035
35	R	18	1	XX08-0508.00	MF 430K 1% 1/4W			7035
35	R	19	1	XX08-0058.00	MF 15.8K 1/4W 1%			7035
35	R	20	1	XX08-0311.00	MF 10K 1/4W 1%			7035
35	R	21	1	XX08-0337.00	MF 20K 1/4W 1%			7035
35	R	22	1	XX08-0058.00	MF 15.8K 1/4W 1%			7035
35	R	23	1	XX08-0311.00	MF 10K 1/4W 1%			7035
35	R	24	1	XX08-0337.00	MF 20K 1/4W 1%			7035
35	R	25	1	XX08-0058.00	MF 15.8K 1/4W 1%			7035
35	R	26	1	XX08-0311.00	MF 10K 1/4W 1%			7035
35	R	27	1	XX08-0337.00	MF 20K 1/4W 1%			7035
35	R	28	1	XX08-0058.00	MF 15.8K 1/4W 1%			7035

TYPICAL VALUE

WANDEL & GOLTERMANN, INC.

TRANSMISSION MEASURING SET

SERIES: M

BILL OF MATERIAL

PMG-3 9202/03

DIAG REF		ITEM		QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	
XX	XXX	XX	XX					9202-XXXX	CODE
35	R	29		1	XX08-0311.00	MF 10K 1/4W 1%		7035	
35	R	30		1	XX08-0337.00	MF 20K 1/4W 1%		7035	
35	R	31		1	XX08-0192.00	CF 56K 1/4W 5%		7035	
35	R	33		1	XX08-0201.00	CF 10 OHM 1/4W 5%		7035	
35	R	34		1	XX08-0292.00	CF 1M OHM 1/4W 5%		7035	
35	R	35		1	XX08-0562.00	MF 5.62K .1% 1/4W		7035	
35	R	36		1	XX08-0185.00	CF 10K 1/4W 5%		7035	
35	R	37		1	XX08-0228.00	MF 5.6K 1/4W 1/2%		7035	
35	R	38		1	XX08-0240.00	CF 180 OHM 1/4W 5%		7035	
35	R	39		1	XX08-0187.00	CF 22K 1/4W 5%		7035	
35	R	40		1	XX08-0181.00	CF 3.9K 1/4W 5%		7035	
35	R	41		1	XX08-0182.00	CF 4.7K 1/4W 5%		7035	
35	R	42		1	XX08-0360.00	MF 2K 1/4W 1%		7035	
35	R	43		1	XX08-0057.00	MF 11.8K 1/4W 1%		7035	
35	R	44		1	XX08-0331.00	MF 1.78K 1/4W 1%		7035	
35	R	45		1	XX08-0066.00	MF 46.4K 1/4W 1%		7035	
35	R	46		1	XX08-0331.00	MF 1.78K 1/4W 1%		7035	
35	R	47		1	XX08-0054.00	MF 7.5K 1/4W 1%		7035	
35	R	48		1	XX08-0051.00	MF 1.58K 1/4W 1%		7035	
35	R	49		1	XX08-0297.00	MF 5.62K 1/4W 1%		7035	
35	R	50		1	XX08-0001.00	CF 15 OHM 1/4W 5%		7035	
35	R	51		1	XX08-0001.00	CF 15 OHM 1/4W 5%		7035	
35	R	52		1	XX08-0001.00	CF 15 OHM 1/4W 5%		7035	
35	R	53		1	XX08-0001.00	CF 15 OHM 1/4W 5%		7035	
35	R	54		1	XX08-0185.00	CF 10K 1/4W 5%		7035	
35	R	55		1	XX08-0206.00	CF 470K 1/4W 5%		7035	
35	R	56		1	XX08-0179.00	CF 3.3K 1/4W 5%		7035	
35	R	57		1	XX08-0206.00	CF 470K 1/4W 5%		7035	
35	R	58		1	XX08-0377.00	CF 3.3M OHM 1/4W 5%		7035	
35	R	60		1	XX08-0244.00	CF 1.8K 1/4W 5%		7035	
35	R	61		1	XX08-0244.00	CF 1.8K 1/4W 5%		7035	
35	R	62		1	XX08-0187.00	CF 22K 1/4W 5%		7035	
35	R	63		1	XX08-0187.00	CF 22K 1/4W 5%		7035	
35	R	64		1	XX08-0185.00	CF 10K 1/4W 5%		7035	
35	R	65		1	XX08-0213.00	CF 2.7K 1/4W 5%		7035	
35	R	66		1	XX08-0249.00	CF 33K 1/4W 5%		7035	
35	R	67		1	XX08-0185.00	CF 10K 1/4W 5%		7035	
35	R	68		1	XX08-0245.00	CF 15K 1/4W 5%		7035	

WANDEL & GOLTERMANN, INC.

TRANSMISSION MEASURING SET

BILL OF MATERIAL

SERIES: M

PMG-3 9202/03

DIAG		REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	
XX	XXX	XX	XX					9202-XXXX	CODE
35	R	69	1	XX08-0055.00	MF 9.09K 1/4W 1%			7035	
35	R	70	1	XX08-0326.00	MF 6.19K 1/4W 1%			7035	
35	R	71	1	XX08-0055.00	MF 9.09K 1/4W 1%			7035	
35	R	72	1	XX08-0326.00	MF 6.19K 1/4W 1%			7035	
35	R	73	1	XX08-0055.00	MF 9.09K 1/4W 1%			7035	
35	R	74	1	XX08-0326.00	MF 6.19K 1/4W 1%			7035	
35	R	75	1	XX08-0055.00	MF 9.09K 1/4W 1%			7035	
35	R	76	1	XX08-0326.00	MF 6.19K 1/4W 1%			7035	
35	R	77	1	XX08-0172.00	CF 100 OHM 1/4W 5%			7035	
35	R	78	1	XX08-0356.00	MF 2.21K 1/4W 1%			7035	
35	R	79	1	XX08-0041.00	MF 316 OHM 1/4W 1%			7035	
35	R	81	1	XX08-0246.00	CF 680K 1/4W 5%			7035	
35	R	82	1	XX08-0216.00	CF 2.2K 1/4W 5%			7035	
35	R	98	1	XX08-0194.00	CF 100K 1/4W 5%			7035	
35	R	99	1	XX08-0194.00	CF 100K 1/4W 5%			7035	
35	RP	1	1	XX08-0609.00	NETWORK 7X100K SIP			7035	
35	RP	2	1	XX08-0609.00	NETWORK 7X100K SIP			7035	
35	T	1	1	XX10-0010.00	TRANSIST 2N2222			7035	
35	T	2	1	XX10-0006.00	TRANSIST 2N3251			7035	
35	T	3	1	XX10-0010.00	TRANSIST 2N2222			7035	

0			0	9202-7701.00	TRANSFORMER POWER			7701	S
1			2	XX05-0354.00	INSERT M 4 B			7701	M
								7701	

WANDEL & GOLTERMANN, INC.

TRANSMISSION MEASURING SET

BILL OF MATERIAL

SERIES: M

PMG-3 9202/03

DIAG REF ITEM
XX XXX XX

QTY PART NUMBER

DESCRIPTION

NOTES

SUBASSEMBLY

9202-XXXX

CODE

7706 S

M

SUPPLIED BY VENDOR

SUPPLIED BY VENDOR

WASH ST3.5 IDx30mm 0

WASHER PAPER 30 mm 0

GROMM BLK RUB 9.50D

CAN ROUND MU-METAL

SCREW CYL SL M2X3

SCREW CYL BR M3X25

SCREW CYL SL M2.5X4

SLEEVE (TEFLON)

SUPPLIED BY VENDOR

7706

S

M

SUPPLIED BY VENDOR

SUPPLIED BY VENDOR

TRANSFORMER AUDIO

BOBBIN

CORE

WASH ST3.5 IDx30mm 0

WASHER PAPER 30 mm 0

GROMM BLK RUB 9.50D

CAN ROUND MU-METAL

SCREW CYL SL M2X3

SCREW CYL BR M3X25

SCREW CYL SL M2.5X4

SLEEVE (TEFLON)

SUPPLIED BY VENDOR

7707

PMG-3 9202/03 ***** BILL OF MATERIAL ***** SERIES: M

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX					9202-XXXX	
0			0	9202-8501.00	CABLE TREE #1		8501	S
8			2	XX03-0251.00	RECEPTCL AMP		8501	A
9			2	XX28-0028.00	SLEEVE INSUL F.RECEP		8501	
11			1	XX28-0145.00	GROMMET BLK RUB 1/2"		8501	
15			2	XX31-0018.00	SLEEVING RUBBER SZ 1		8501	
7	BU		6	XX03-0336.00	CONN 6 PIN F W/CAP		8501	
0			0	9202-8502.00	CABLE TREE #2		8502	S
7			1	XX03-0342.00	KEY CONN 641623-1		8502	A
9			2	XX30-0014.00	TIE CABLE 1.5mm		8502	
4	BU		1	XX03-0336.00	CONN 6 PIN F W/CAP		8502	
0			0	9202-8520.00	CABLE 2 WIRE TWIST		8520	S
							8520	A
0			0	9202-8521.00	CABLE 2 WIRE SHIELD	SEE 9202-0130.00/3	8521	S
1	BU		1	XX03-0143.00	JACK TF S-280		8521	A
0			0	9202-8522.00	CABLE 2 WIRE SHIELD	SEE 9202-0130.00/3	8522	S
3	BU		1	XX03-0143.00	JACK TF S-280		8522	A
16	C		1	XX02-0221.00	CAP CER 39pF 2% NPO		8522	

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET

PMG-3 9202/03 ***** BILL OF MATERIAL ***** SERIES: M

DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XX	XX					9202-XXXX	
0		0	0	9202-8523.00	CABLE RIBBON 26 COND		8523	S
2		2	1	XX03-0227.00	26 F 3M 3399-6026		8523	A
4		4	1	XX03-0455.00	CONN PCB 26CDR RIBBN		8523	
0		0	0	9202-8524.00	CABLE RIBBON 40 COND		8524	S
3		3	2	XX03-0346.00	CONN 40p DIP 3M 3508		8524	A
4		4	2	XX05-0397.00	STR REL 40P 3M3443-1		8524	
5		5	1	XX28-0161.00	PULL TAB 40P CONN		8524	
0		0	0	9202-8527.00	CABLE 2 WIRE TWIST		8527	S
							8527	M
0		0	0	9202-8530.00	CABLE 2 WIRE SHIELD		8530	S
							8530	A
0		0	0	9202-8531.00	CABLE 2 WIRE TWIST		8531	S
							8531	A
0		0	0	9202-8532.00	CABLE 1 WIRE SHIELD		8532	S
							8532	A

WANDEL & GOLTERMANN, INC.
TRANSMISSION MEASURING SET
***** BILL OF MATERIAL *****
***** SERIES: M *****

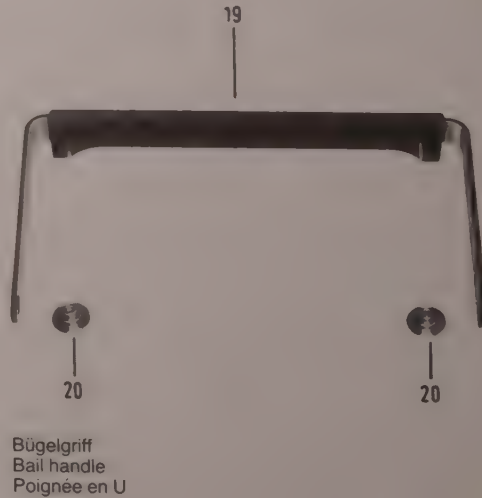
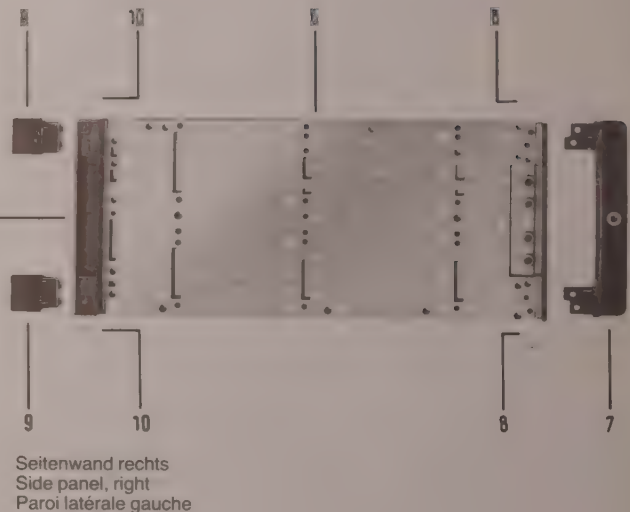
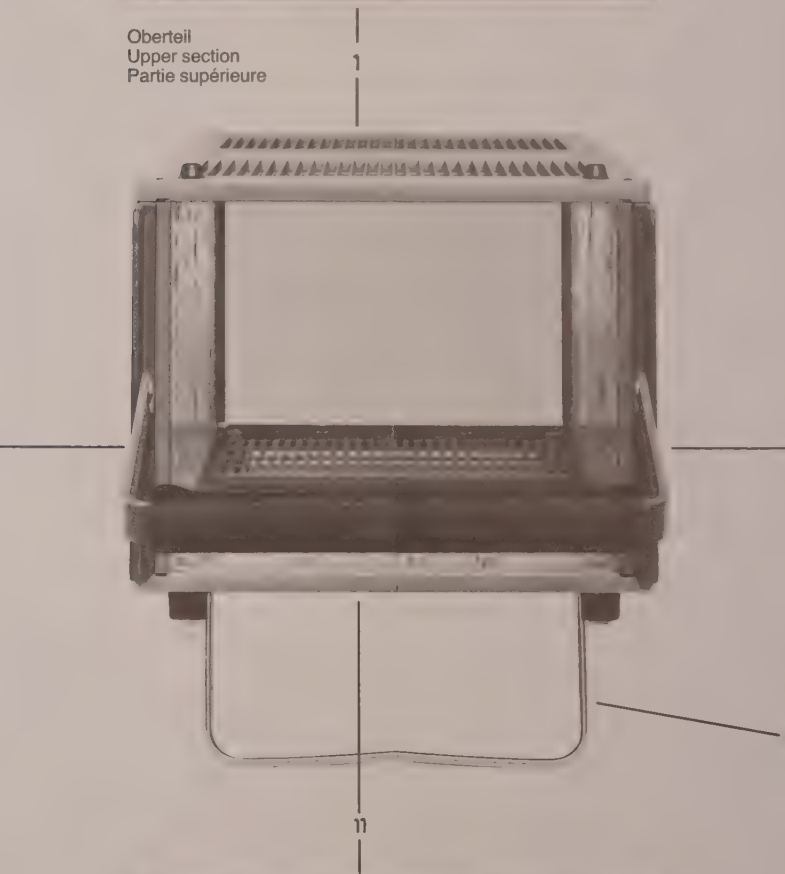
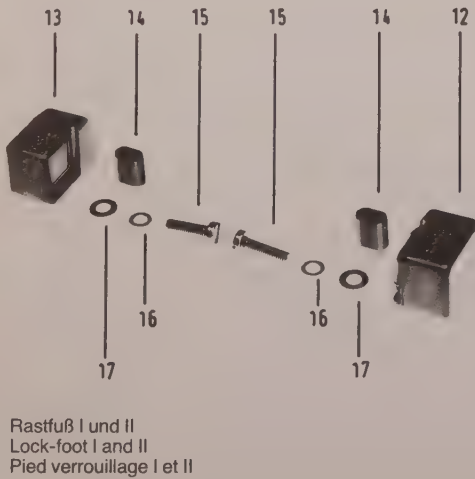
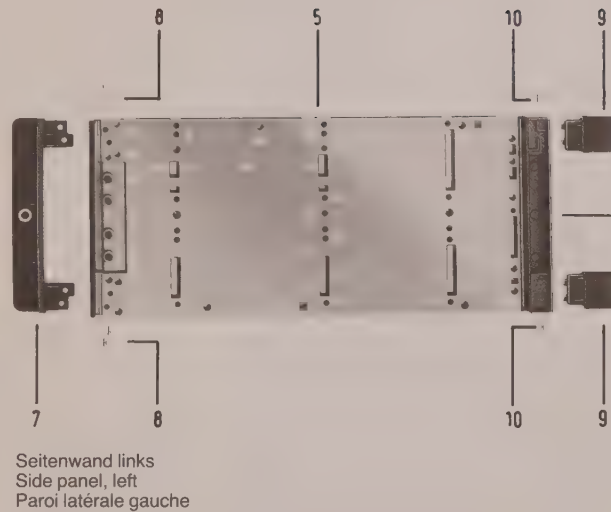
PMG-3	9202/03	DIAG	REF	ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES	SUBASSEMBLY	CODE
XX	XXX	XX							9202-XXX	
				0	0	9202-8540.00	PLUG PROGRAMMED PMG3		8540	S
				1	1	XX03-0351.00	DIP PLUG 16P C-A CRP	ARITHMETIC BOARD	8540	A
				2	1	XX03-0353.00	COVER CA-16-160-000		8540	
				0	0	9202-8544.00	PLUG PROGRAMM. PMG-3		8544	S
				1	1	XX03-0351.00	DIP PLUG 16P C-A CRP	SYTHESIZER	8544	A
				2	1	XX03-0353.00	COVER CA-16-160-000		8544	

1/219" Druckgußgehäuse	BN 900
1/219" die cast enclosure	BN 900
1/219" coulé sous pression	BN 900

1/219" Druckgußgehäuse/ 1/219" die cast enclosure/Coffret 1/2 19" coulé sous pression

BN 900

Pos.	Bezeichnung	Pos. Description	Désignation	Bestell-Nummer Order Number N° de commande
1	Oberteil nicht perforiert perforiert	Upper section unperforated perforated	Partie supérieure non perforée perforée	900-0110.001/4 900-0310.005/4
2	Zylinderschraube M4×12 DIN 912	Cylinder head machine screw, 4×12 mm, DIN 912	Vis cylindrique M4×12 DIN 912	0000-7500.697
3	Führung	Guide	Guide	0700-0100.013
4	Zylinderschraube M4×6 DIN 7984	Cylinder head machine screw, 4×6 mm, DIN 7984	Vis cylindrique M4×6 DIN 7984	0000-7500.707
5	Seitenwand links ohne Netzteil- befestigung (komplette Seitenwand)	Side panel, left, without power supply mount (complete left side panel)	Paroi latérale gauche sans fixation alimentation (paroi latérale complète)	900-4000.007/4
6	Seitenwand rechts ohne Netz- teilbefestigung (komplette Seitenwand) mit Netzteilbefestigung Bei Nachbestellung kom- plette Seitenwand rechts anfordern. Angabe des Ge- rätetyps, der Gerätnummer und Serie ist unbedingt erforderlich.	Side panel, right, without power supply mount (complete right side panel) with power supply mount When re-ordering, request right side panel. It is uncon- ditionally necessary that the type of instrument, serial number of instrument and series letter be specified.	Paroi latérale droit sans fixation alimentation (paroi latérale complète) avec fixation alimentation Lors de la commande par la suite demander le côté droite complet. Type d'appareil, numéro d'appareil et série absolument nécessaire.	900-4000.007/4
7	Halterung für Bügelgriff	Mount for bail handle	Fixation pour poignée en U	0900-4001.006
8	Niete	Rivets	Rivets	0700-0000.074
9	Fuß für Seitenwand	Foot for side panel	Pied pour paroi latérale	0700-0000.016
10	Kerbstift 2,5×10,0	Tapered pin, 2,5×10,0	Goupille rainurée 2,5×10,0	0001-0066.597
11	Unterteil nicht perforiert perforiert	Bottom section unperforated perforated	Dessous non perforé perforé	900-0510.009/4 900-0710.003/4
12	Rastfuß I	Idented foot I	Pied verrouillage I	0700-0000.029
13	Rastfuß II	Idented foot II	Pied verrouillage II	0700-0000.032
14	Fuß	Foot	Pied	0000.0421.075
15	Zylinderschraube M4×15 DIN 84	Cylinder head machine screw, 4×15 mm, DIN 84	Vis cylindrique M4×15 DIN 84	0000-7599.307
16	Federring 4,1×7,6×0,9	Split ring lock washer 4.1×7.6×0.9	Rondelle 4,1×7,6×0,9	0001-0024.830
17	Scheibe 4,3×9,0×0,8	Washer 4.3×9.0×0.8	Rondelle 4,3×9,0×0,8	0001-0024.555
18	Aufsteller	Tilt stand	Etrier	0900-0000.014
19	Bügelgriff	Bail handle	Poignée en U	0900-4010.000
20	Ansatzschraube	Attachment screw	Vis de montage	0900-4010.039



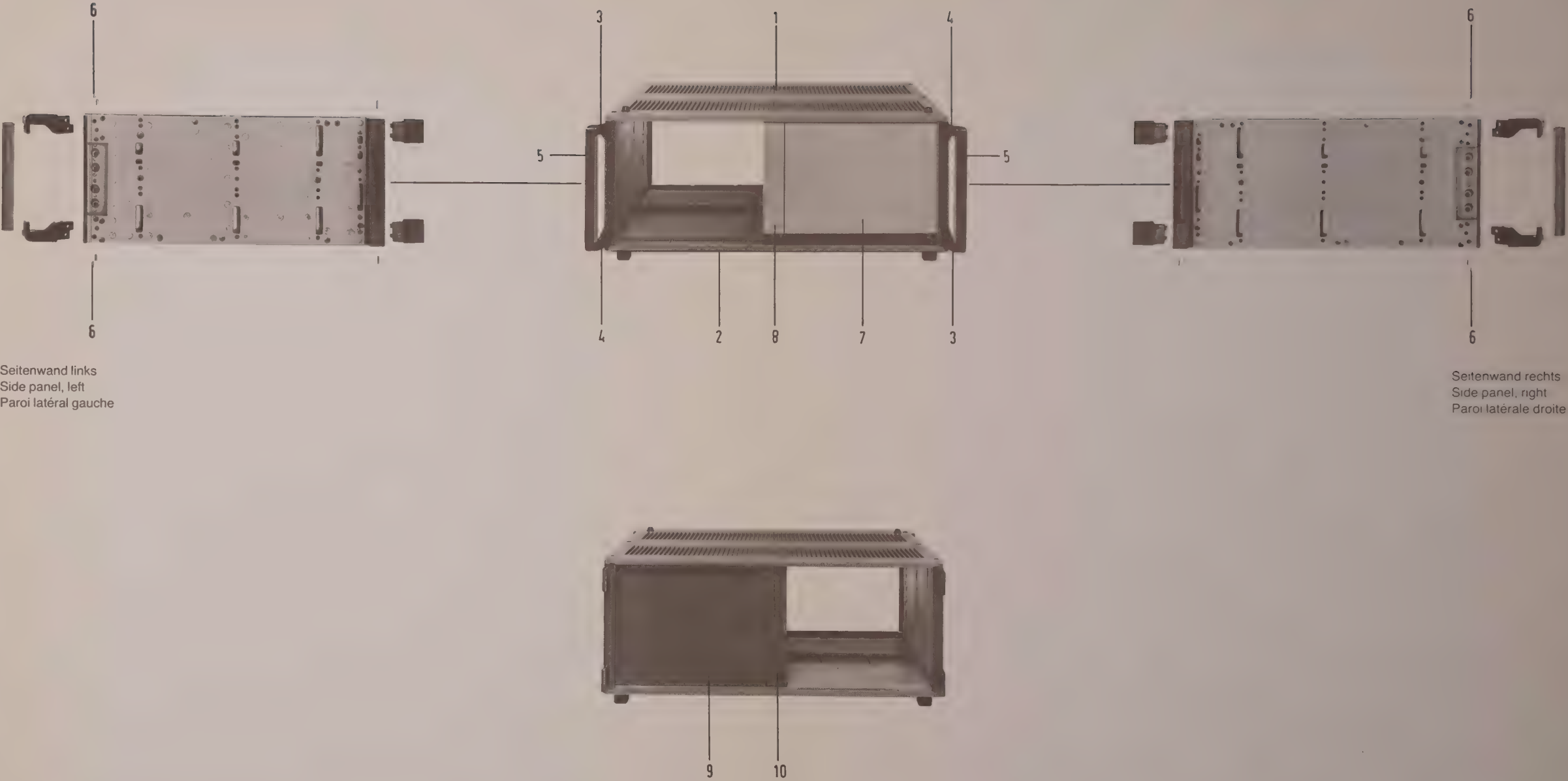
Ergänzung eines 1/2 19” Gerätes im Druckgußgehäuse auf 1/1 19” Breite mit seitlichen Griffen
Extension of one half-19” instrument in diecast enclosure to form a full 19” width unit with side handles
Extension d'un appareil 1/2 19” en coffret coulé sous pression de largeur 1/1 19” avec poignées latérales

Bausatz besteht aus folgenden Teilen:

Conversion kit consisting of:

L'ensemble comprend les composants suivants:

Pos.	Stück	Bezeichnung	Bestell-Nummer
Pos.	No.	Description	Order Number
Pos.	Pièce (s)	Désignation	Numéro de commande
1	1	Oberteil perforiert komplett Upper section perforated Partie supérieure perforée	0700-1300.003
2	1	Unterteil perforiert komplett Bottom section perforated Dessous perforé	0700-1700.001
3	2	Grifflager I Handle mount I Logement poignée I	0700-0000.058
4	2	Grifflager II Handle mount II Logement poignée II	0700-0000.061
5	2	Griffrohr Handle tube Poignée en tube	0700-4000.038
6	8	Niete Rivet Rivet	0700-0000.074
7	1	Blindabdeckplatte vorne Front panel blanking plate Plaque de recouvrement panneau avant	0900-0000.108
8	1	Füllstück Frontwand Front panel blanking plate Plaque de recouvrement panneau avant	0900-0000.027
9	1	Blindabdeckplatte hinten Back panel blanking plate Plaque de recouvrement panneau arrière	0900-0000.124
10	1	Füllstück Rückwand Back panel blanking plate Plaque de recouvrement panneau arrière	0900-0000.056



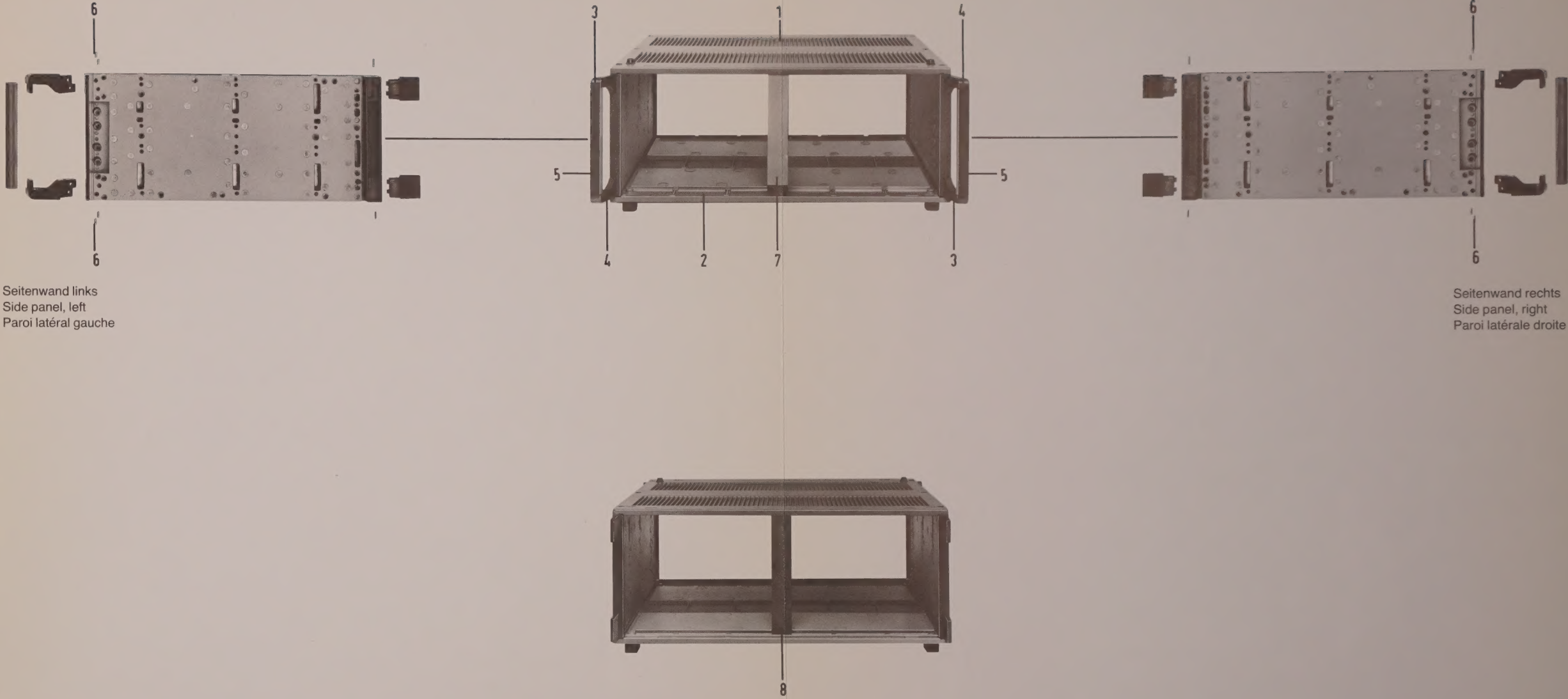
Zusammenbau von zwei 1/2 19" Geräten im Druckgußgehäuse auf 1/1 19" Breite mit seitlichen Griffen
Fitting two half-19" instruments in diecast enclosures together to form a full-19" width unit with side handles
Combinaison de deux appareils 1/2 19" en coffret coulé sous pression de largeur 1/1 19" avec poignées latérales

Bausatz besteht aus folgenden Teilen:

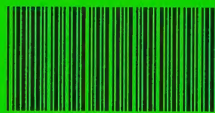
Conversion kit consisting of:

L'ensemble comprend les composants suivants:

Pos.	Stück	Bezeichnung	Bestell-Nummer
Pos.	No.	Description	Order Number
Pos.	Pièce (s)	Désignation	Numéro de commande
1	1	Oberteil perforiert komplett Upper section perforated Partie supérieure perforée	0700-1300.003
2	1	Unterteil perforiert komplett Bottom section perforated Dessous perforé	0700-1700.001
3	2	Grifflager I Handle mount I Logement poignée I	0700-0000.058
4	2	Grifflager II Handle mount II Logement poignée II	0700-0000.061
5	2	Griffrohr Handle tube Poignée en tube	0700-4000.038
6	8	Niete Rivet Rivet	0700-0000.074
7	1	Füllstück Frontwand Front panel blanking plate Plaque de recouvrement panneau avant	0900-0000.027
8	1	Füllstück Rückwand Back panel blanking plate Plaque de recouvrement panneau arrière	0900-0000.056



MP MASTER



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